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ABSTRACT

This study reports the characteristics of the graduated science student population as well as of science faculty and post doctoral appointees, and examines trends of certain key factors over a three-year period. Information was analyzed from 2,990 doctoral science departments reporting for 1971 and was machine matched with similar data reported for 1969 and 1970 by the same departments. Results indicated: (1) graduate science enrollments in doctoral departments applying for National Science Foundation traineeships declined 3% from 1970 to 1971; (2) both full- and part-time enrollment dropped during 1970-1971; (3) the most substantial change in the graduate enrollment picture occurred in the number of students enrolled for the first time; (4) graduate enrollment of foreign students was down 2% in 1971 after increasing 5% in 1970; (5) the enrollment dropped off of nearly 2% in full-time graduate science students is attributable to a 10% decline in the number supported by fellowships or traineeships; (6) research assistantships and teaching assistantships declined 4% and 1% respectively; (7) the number of federally supported full-time students declined from 1970-71; and (8) science faculty and postdoctorals associated with doctorate departments were increasing. (Author/MJM)

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Graduate Student Support and Manpower in Graduate Science Education



Student Support and Manpower Resources in Graduate Science Education, Fall 1971

NATIONAL SCIENCE FOUNDATION

WASHINGTON, D.C. 20550

August 13, 1973

PUBLICATION ANNOUNCEMENT

Trends in graduate science and engineering enrollments for the years 1969-71 are described in a new National Science Foundation (NSF) report.

The report, Graduate Student Support and Manpower Resources in Graduate Science Education (NSF 73-304) provides data on characteristics of graduate science enrollment in terms of types and sources of major financial support for graduate students, level of study, citizenship, and field of science. Data on science faculty and postdoctorals are also analyzed.

Highlights of the report include:

Enrollment of first-time graduate students in science and engineering declined by 8% in 1971, following a 4% drop in 1970;

Overall graduate science and engineering enrollments in doctorate departments declined 3% from 1970 to 1971; and

Running counter to the trend, enrollments during that period increased in the social sciences and psychology.

Data for the reports were obtained from 224 principal doctorate granting institutions in the U.S. and from 2,579 doctorate departments reporting consistently for the years 1969, 1970, and 1971.

This report presents the detailed findings that were the basis for the Science Resources Studies Highlights of May 25, 1972 entitled "First-Year Full-Time Graduate Science Enrollment Continues to Decline" (NSF 72-308). Both the Highlights and the final report were prepared by the Foundations' Division of Science Resources Studies.

Copies of Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1971 (NSF 73-304) may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. for \$1.25 per copy domestic postpaid; or \$1.00 at the GPO bookstore.

FOREWORD

During the 1960's the Federal Government acted boldly to strengthen the Nation's science and technology through expansion of its scientific manpower resources. As part of this effort, the National Science Foundation established the Graduate Traineeship Program in 1964 which was designed to increase the flow of high-ability graduate science students into the mainstream of the Nation's scientific community. With the current supply of research-oriented Ph.D.'s and other graduates with advanced science and engineering degrees more nearly in balance with the Nation's requirements, this program has been phased out in favor of new methods for improving the scientific educational system itself.

The National Science Foundation is grateful for the cooperation of the graduate deans and department chairmen who supplied the information on which this report is based. The results presented here may in turn be useful to them in serving as planning tools for the management of the scientific resources of institutions of higher education.

March 1973

H. Guyford Stever, Director
National Science Foundation

general notes

- Fall 1971 data contained in this report were provided by 2,990 doctorate science departments as part of the National Science Foundation's Graduate Traineeship Program.
- Trend statistics were available for only the 2,579 science departments that provided data each year during the period 1969-71.
- The term "science" as used in this report, is understood to include engineering.
- The phrase "graduate enrollment" refers to the total of full- and part-time graduate science students.
- Details may not add to totals because of rounding.
- The phrases, "1969-70" and "1970-71" refer to the period fall 1969 to fall 1970 and fall 1970 to fall 1971, respectively; the terms are not used in reference to academic years.

acknowledgments

This report was prepared by Per Nonprofit Institutions Studies Group by William L. Stewart, Head, R&D Economics of Science Resources Studies, Thomas Helene Ebenfield, Special Analytical Section of the section entitled "Characteristics of Graduate Science Departments, Fall 1971."

Statistics upon which this and the other reports were compiled were supplied by the Division of Higher Education, Department of Education, and are accorded Dr. Douglas S. Chapin, Head, for his valuable assistance.

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acknowledgments

This report was prepared by Penny D. Foster of the Universities and Nonprofit Institutions Studies Group. Guidance and review were provided by William L. Stewart, Head, R&D Economic Studies Section of the Division of Science Resources Studies, Thomas J. Mills, Director. Special thanks go to Helene Ebenfield, Special Analytical Section, who contributed to the preparation of the section entitled "Characteristics of Graduate Student Support, Fall 1971."

Statistics upon which this and previous reports were based were supplied by the Division of Higher Education in Science. Special recognition is accorded Dr. Douglas S. Chapin, Head, Fellowships and Traineeships Section, for his valuable assistance.

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HIGHLIGHTS

- Graduate science enrollment in doctorate departments applying for National Science Foundation traineeships declined 3 percent from 1970 to 1971. This decline prevailed in all areas of science except psychology and the social sciences (page 1).
- Both full- and part-time enrollment dropped from 1970 to 1971. The 8-percent decline in part-time enrollment represented the second successive year of reductions (page 1).
- The most substantial change in the graduate enrollment picture occurred in the number of students enrolled for the first time, traditionally a measure used for projecting the future scientific manpower pool. The number of students in this group declined by 8 percent in 1971, following a 4-percent drop in 1970 (page 1).
- For the first time since this statistical series was inaugurated, graduate enrollment of foreign students was down 2 percent in 1971 after increasing 5 percent the previous year. Foreign graduate enrollment in the earlier study had gained 10 percent from 1967 to 1968 and another 11 percent by 1969 (page 2.)
- The enrollment dropoff of nearly 10 percent for nearly all students is attributable primarily to a decline in students supported by fellowships or traineeships, which were utilized by 17 percent fewer students in 1971 (page 4).
- Research assistantships and teaching assistantships declined 1 percent, respectively, while student organizations registered a 9-percent increase (page 4).
- The number of federally supported students declined from 1970 to 1971 at twice the rate of decline in total support from all outside sources (page 9).
- First-year full-time enrollment in science and engineering declined 8 percent from 1970 to 1971, reflecting a decline in developing graduate schools and departments (page 9).
- At a time when graduate enrollment and postdoctorals associated with it were declining (page 18).

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- The enrollment dropoff of nearly 2 percent in full-time graduate science students is attributable primarily to a 10-percent decline in the number supported by fellowships or traineeships. This method of support was utilized by 17 percent fewer first-year students in 1971 than in 1970 (page 4).
- Research assistantships and teaching assistantships declined 4 percent and 1 percent, respectively, while students relying on "other" support mechanisms registered a 9-percent increase (page 4).
- The number of federally supported full-time students declined from 1970 to 1971 at twice the rate of decline, or 10 percent, of the students receiving support from all outside sources (page 6).
- First-year full-time enrollment in the "first 20" institutions declined by 8 percent from 1970 to 1971, nearly three times the rate of decline in developing graduate schools and twice the rate in intermediate institutions (page 9).
- At a time when graduate enrollments were declining, both science faculty and postdoctorals associated with doctorate departments were increasing (page 18).

INTRODUCTION

Since 1965 graduate science departments in doctorate-granting institutions, in applying to the NSF Graduate Traineeship Program, have supplied the National Science Foundation with information on the types and sources of support utilized by graduate students. Four reports based on these statistics have been published to date, and this report presents information on the patterns of graduate student support as of fall 1971. A new survey for fall 1972 that is currently being processed will include a larger number of science departments — over 4,500 — and will provide data for the first time from all medical schools offering the doctorate.

This is one of the series of Foundation studies analyzing the utilization of the Nation's resources for science in accordance with its legislative mandate. This study reports the characteristics of the graduate science student population, as well as of science faculty and postdoctoral appointees, and examines trends in certain key factors over a 3-year period.

Information was analyzed from 2,990 doctorate science departments reporting for 1971 and was machine matched with similar data reported for 1969 and 1970 by the same departments. Analyses of trends were therefore based on data from the 2,579 doctorate science departments which had reported for the entire period 1969-71.

Data on graduate enrollments presented here are considered highly representative of total U.S. graduate enrollment in the sciences and engineering as reported by the Office of Education. The institutions covered in this study awarded over 95 percent of the science doctorates conferred by all U.S. institutions in 1971, as described in appendix table A-1. Comparable science enrollment data were not yet available from the Office of Education at the time of this report. In 1970 however, institutions applying for NSF traineeships enrolled 80 percent of the science students in graduate degree-credit programs, as shown in appendix table A-2.

The report examines four principal characteristics of graduate students enrolled in doctorate science departments: Enrollment status (full- or part-time); distribution among fields of science; level of study (first year or beyond); and citizenship. Full-time students are further examined by types and sources of their major support.

Section 1. SUPPORT OF GRADUATE STUDENTS IN SCIEN

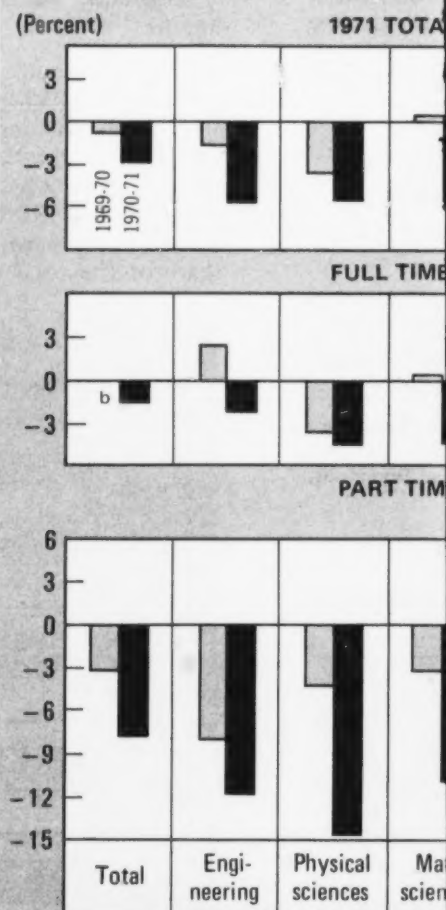
General Enrollment Patterns

Graduate science enrollment declined for the second consecutive year, among doctorate departments reporting consistently during 1969-71, falling to 165,300 in 1971, 3 percent below the 1970 figure. Part-time students accounted for three-fifths of the total reduction in graduate enrollment between 1970 and 1971. First-year enrollments were down a total of 12 percent during the period 1969-71—4 percent in 1969 and 8 percent in 1970. Beyond first-year enrollment, on the other hand, remained fairly stable throughout the 3-year period, declining less than 1 percent in 1971.

The most frequent explanation given by university officials attributes this downward trend in graduate science enrollments to the financial squeeze that was reported to be particularly acute in 1971 and the years immediately preceding. Several of the leading universities, for reasons of economy, began consciously reducing, or at least restricting, enrollment. Also cited as reasons for the downturn were a general feeling of disenchantment among students towards the sciences and technology and the rising unemployment rate among scientists and engineers.

Only psychology and the social sciences avoided reduced graduate enrollment levels in 1971. The remaining fields experienced declines ranging from 1 percent in the life sciences to nearly 6 percent in the mathematical sciences. In 1970 the only decreases noted occurred in engineering and the physical sciences.

Change in graduate enrollment by area



*Based on 2,579 doctorate departments for 1971.

^bLess than 0.05 percent change.

SOURCE: National Science Foundation (approximate).

REPORT OF GRADUATE STUDENTS IN SCIENCE, 1969-71

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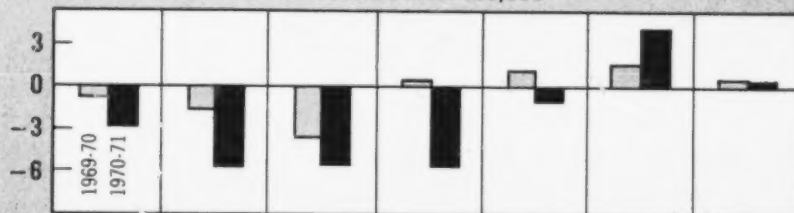
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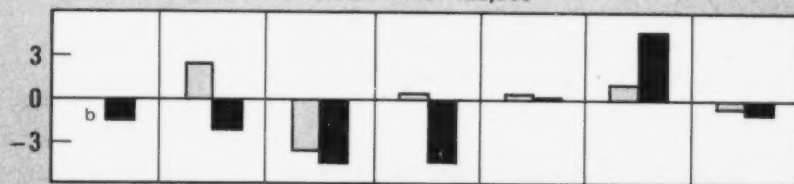
Change in graduate enrollment by area of science, 1969-71^a

(Percent)

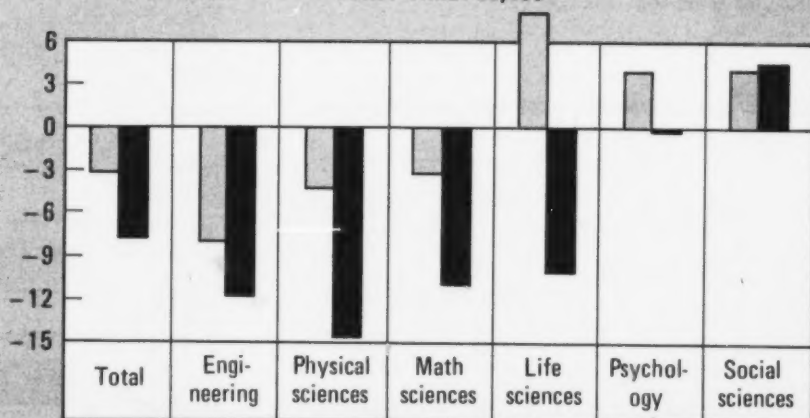
1971 TOTAL: 165,300



FULL TIME: 129,900



PART TIME: 35,400



^aBased on 2,579 doctorate departments for 1969, 1970, and 1971.

^bLess than 0.05 percent change.

SOURCE: National Science Foundation (appendix table C-15).

Although an earlier study¹ showed steady increases in the number of foreign graduate students enrolled in doctorate departments at U.S. institutions, 10 percent from 1967 to 1968 and 11 percent from 1968 to 1969, the 4:1 ratio of U.S. citizen graduate students to foreign students has remained stable for the period 1969-71.

Private institutions accounted for the major portion of the cutback in graduate enrollment in science programs during 1971. Again, the decline in part-time students shows up as the primary factor influencing total enrollment figures in both public and private institutions.

Support of Full-Time Graduate Students

After maintaining a generally stable position through 1970, full-time enrollment began to show the effect of reduced support for fellowship and

¹National Science Foundation, *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1970* (NSF 71-27) (Washington, D.C. 20402: Supt. of Documents, U. S. Government Printing Office), p. 72.

Percent change in graduate enrollment, by control of institution, 1970 to 1971^a

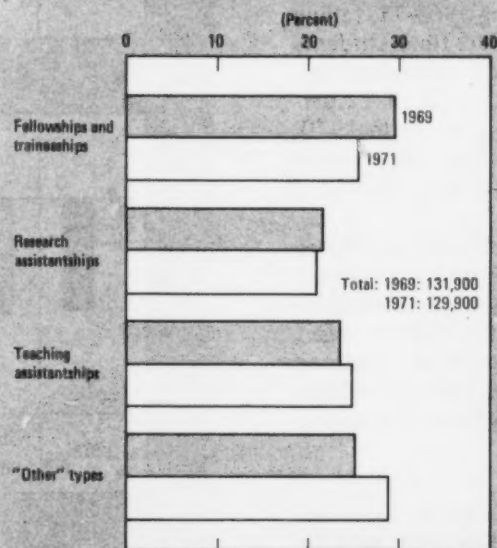
Enrollment status	Public institutions	Private institutions
Graduate enrollment in the sciences and engineering	- 1.2	- 6.1
Full-time enrollment	- .2	- 2.4
U. S. citizens	.3	- 2.5
Foreign students	- 1.9	- 2.0
First-year students	- 4.3	- 3.0
Beyond-first-year students	1.9	- 2.1
Part-time enrollment	- 6.0	-13.6

^aBased on 2,887 matched doctorate departments reporting for both 1970 and 1971. Data for three consecutive years were not available.

traineeship programs and the leveling off of the rate of growth of academic research. As funds for such programs became tighter, more students were forced to seek support from other sources. Perhaps because of prevailing economic conditions and the effect of campus unrest on traditional sources of support, the only increase in financial support turned out to be from family assistance, loans, and other forms of "self-support."

The proportion of students holding fellowships and traineeships has declined; by 1971 these students represented 25 percent of the total, in contrast with the 29-percent share they represented in 1969. Both teaching and research assistantships have maintained about their same share of the total number of full-time students

Types of major support as percent of full-time enrollment, 1969 and 1971^a



^aBased on 2,579 doctorate departments reporting for 1969, 1970, and 1971.
SOURCE: National Science Foundation (appendix table C-17A).

trained steady graduate students at U.S. in 1968 and a 1 ratio of graduate students in 1969-71. For the major enrollment in the decline the primary sources in both

traineeship programs and the leveling off of the rate of growth of academic research. As funds for such programs became tighter, more students were forced to seek support from other sources. Perhaps because of prevailing economic conditions and the effect of campus unrest on traditional sources of support, the only increase in financial support turned out to be from family assistance, loans, and other forms of "self-support."

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Percent change in full-time graduate enrollment, by type of support, 1969-71^a

Types of major support	Percent change	
	1969-70	1970-71
Total	(b)	-1.5
Fellowships-traineeships . .	-6.5	-9.5
Research assistantships . . .	(b)	-4.4
Teaching assistantships . . .	4.5	-.9
Other types, primarily self-support	3.3	8.8

^aBased on 2,579 doctorate science departments reporting for each of the years 1969, 1970, and 1971.

^bLess than 0.05 percent change.

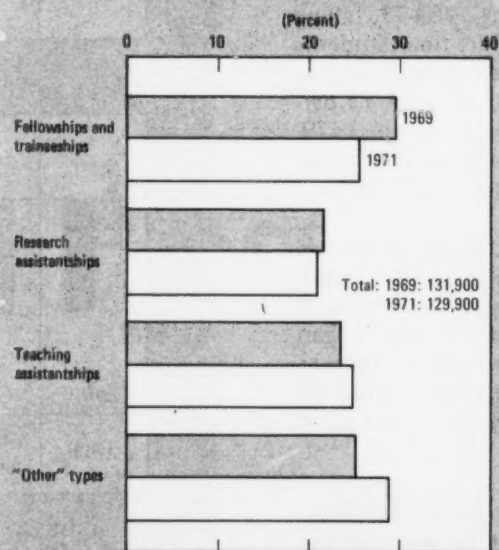
in this period, while those depending on "other" mechanisms represented 29 percent in 1971, up from 25 percent in 1969.

LEVEL OF STUDY

The sharp decrease in availability of fellowships or traineeships to first-year students accounted for the bulk of the decline in full-time graduate enrollment in 1971. Both the number of research and teaching assistants newly enrolled in graduate school exhibited a downward trend, and only those students attending at their own expense showed consistent but minor gains in enrollment.

The 3-percent decline in research assistantships available to first-year students for the period 1969-71 reflects the slowdown in the rate of growth in R&D expenditures from all sources experienced by universities and colleges beginning with academic year 1969.² The 5-percent

Types of major support as percent of full-time enrollment, 1969 and 1971^a

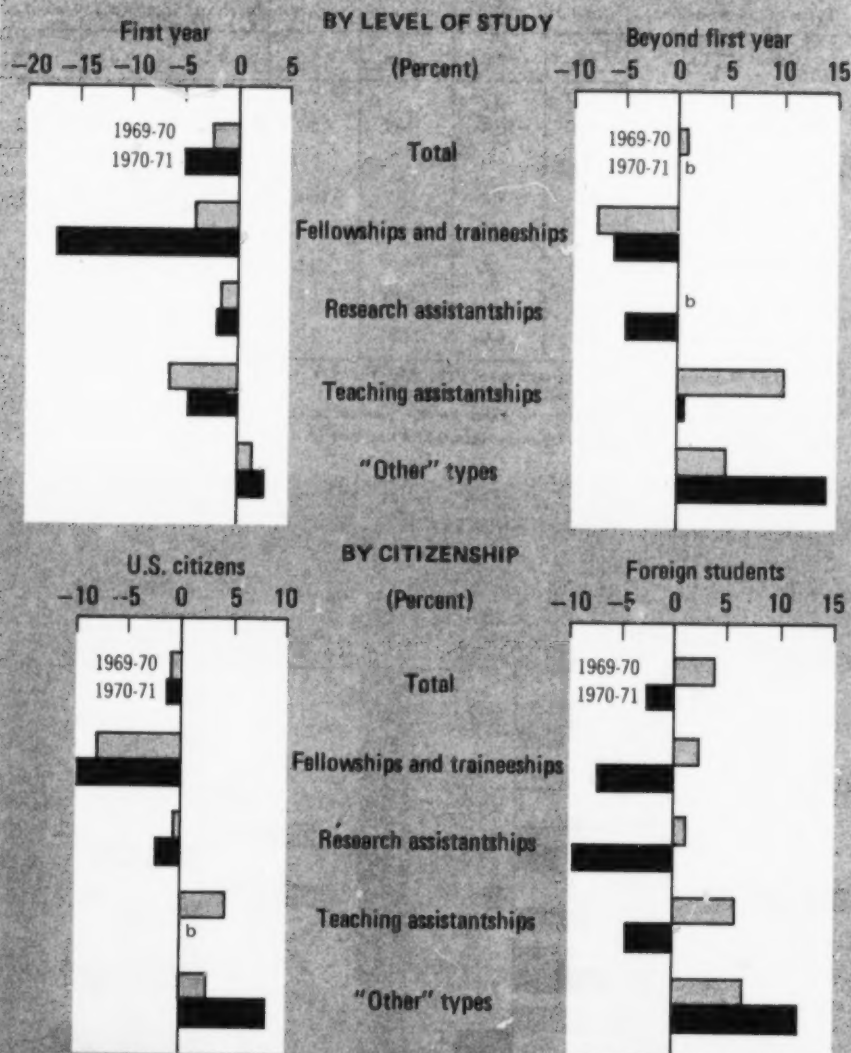


^aBased on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

SOURCE: National Science Foundation (appendix table C-17A).

²National Science Foundation, *Resources for Scientific Activities at Universities and Colleges, 1971* (NSF 72-315) (Washington, D. C. 20402: Supt. of Documents, U. S. Government Printing Office), p. 41.

Changes in the number of full-time graduate students, by type of major support, 1969-71^a



^aBased on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

^bLess than 0.5 percent change.

SOURCE: National Science Foundation (appendix tables C-17A and C-18A).

per year rate of increase in R&D considerably below the 13-percent annual rate for the four years, 1964-68. The main factor was that portion supplied by the F-33 program, which declined 3 percent per year during 1968-71, compared with 3 percent during 1964-68.

A somewhat different picture emerged when rolled beyond their first year of study. Since fellowships and traineeships were reduced, the rate of increase from 1970 to 1971 was less than that experienced during 1964-68.

CITIZENSHIP

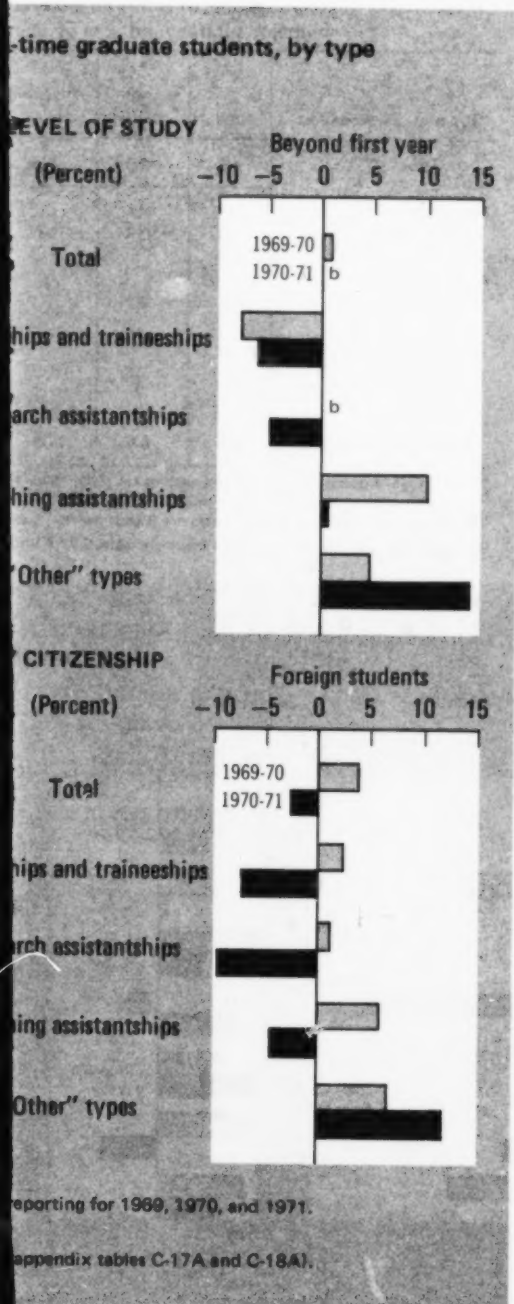
Among graduate science students, the rate of increase has remained constant at about 4:1 since 1964. The enrollment reported for 1971 affected the rate, dropping at a rate of 2.4 percent compared with the 1970 figure. This is the first decline in numbers of graduates since the Foundation began compiling the data with the latest data collected by the Census Bureau. This report showed a reduction by 2.4 percent in the graduate student population between 1970 and 1971. The proportion of graduates to the total population was 1.4 percent below the 1970 figure, the lowest since 1964.

The rate of reduction in foreign students was most noticeable in the number of fellows-trainees, which was lowered in order by fellows-trainees and research assistantships. U.S. citizen enrollment for that period was 1.4 percent of fellowships and traineeships.

The continuing drop in enrollment in 1971 runs counter to population trends. According to the 1971 Census statistics, the total population was 1.4 percent below the 1970 figure, although a slow decline since 1967.

Year (as of July 1)	Age (In thousands)
1967	16
1968	16
1969	17
1970	18
1971	19

³Institute of International Education, Open Door



per year rate of increase in R&D expenditures during 1968-70 was considerably below the 13-percent annual rate of growth during the previous four years, 1964-68. The main factor responsible for this lower rate of growth was that portion supplied by the Federal Government, which increased only 3 percent per year during 1968-70, compared with 14 percent per year during 1964-68.

A somewhat different picture emerges for those full-time students enrolled beyond their first year of graduate work. While fellowships and traineeships were reduced, the rate of decline was considerably less from 1970 to 1971 than that experienced by their first-year counterparts.

CITIZENSHIP

Among graduate science students the ratio of U.S. citizens to foreigners has remained constant at about 4:1 for the past several years. The decline in enrollment reported for 1971 affected both groups, with foreign enrollment dropping at a rate of 2.4 percent compared to 1.3 percent for U.S. citizens. This is the first decline in numbers of full-time foreign graduate students noted since the Foundation began compiling these data, and this decline is consistent with the latest data collected by the Institute of International Education.³ This report showed a reduction by some 4,500 students in the total foreign graduate student population between 1970 and 1971, from 65,859 to 59,333. The proportion of graduates to the total number of foreign students was 4 percent below the 1970 figure, the lowest in 8 years.

The rate of reduction in foreign graduate enrollment from 1970 to 1971 was most noticeable in the number of holders of research assistantships, followed in order by fellows-trainees and teaching assistants. The reduction in U.S. citizen enrollment for that period was felt most strongly by the holders of fellowships and traineeships.

The continuing drop in enrollment of U.S. citizens in both 1970 and 1971 runs counter to population trends for the 22-to-27-years age group, the prime group from which graduate students are derived. According to Census statistics, the total population in this age group has increased yearly from 1967 to 1971 although a slowdown was noted in 1970.

Year (as of July 1)	Age 22-27 (In thousands)	Annual percent change
1967	16,106	3.4
1968	16,592	3.0
1969	17,918	8.0
1970	18,631	4.0
1971	19,308	3.6

³Institute of International Education, *Open Doors*, 1972, (New York: IIE Publications Division, 1973).

TYPES OF MAJOR SUPPORT

Only the life sciences and psychology enrolled more students in 1971 than in 1970. In the life sciences, the increase was barely measurable, but it resulted primarily from an influx of students dependent on "other" mechanisms. In psychology, these students had a strong influence also, as they did in every other area of science. The physical sciences suffered the greatest relative decrease in students holding fellowships or traineeships, while the mathematical sciences lost the most research assistants.

The sharp downturn in first-year full-time graduate enrollment from 1970 to 1971 took place in virtually every area of science. As shown in the accompanying chart, fellows-trainees bore the brunt of this decline, especially in the physical and mathematical sciences. Although the number of research and teaching assistants also tapered off, the effect was not as great as that felt by fellows-trainees. The number of first-year students depending on other mechanisms of support actually increased in 1971, the only form of support to do so, with every area of science except engineering and the social sciences showing substantial gains.

Percent change in full-time major support and area

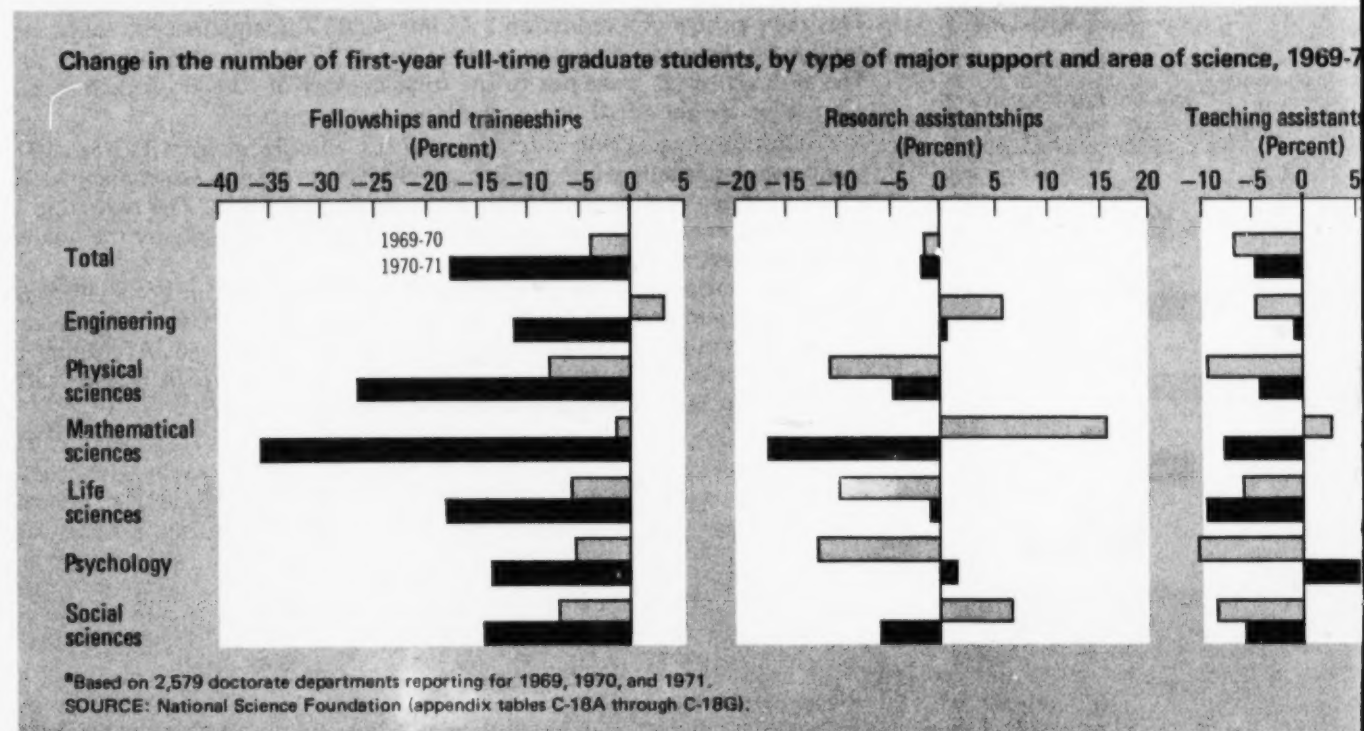
Types of major support	Total	Engineering
Total	- 1.5	- 2.0
Fellowships and traineeships	- 9.5	-10.6
Research assistantships	- 4.4	- 4.2
Teaching assistantships	- .9	- .8
"Other" types, primarily self-support	8.8	6.0

^aBased on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

^bNSF traineeships were not awarded in clinical medical departments.

^cHistory and philosophy departments were not eligible.

SOURCE: National Science Foundation (appendix tables C-18A through C-18G).



The physical sciences suffered the greatest folding fellowships or traineeships, while the most research assistants.

Percent change in full-time graduate enrollment, by type of major support and area of science, 1970 to 1971^a

Types of major support	Total	Engineering	Physical sciences	Mathematical sciences	Life sciences ^b	Psychology	Social sciences ^c
Total	- 1.5	- 2.0	- 4.3	- 4.3	0.1	4.8	- 0.9
Fellowships and traineeships	- 9.5	-10.6	-15.6	-13.7	- 8.5	- 6.0	- 6.0
Research assistantships	- 4.4	- 4.2	- 6.3	-16.8	- 2.0	1.8	- 1.5
Teaching assistantships	- .9	- .8	- 1.2	- 3.5	.2	3.9	- .9
"Other" types, primarily self-support .	8.6	6.0	11.9	7.7	15.3	23.2	3.4

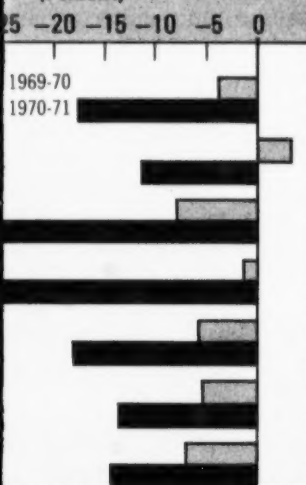
^aBased on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

^bNSF traineeships were not awarded in clinical medical fields.

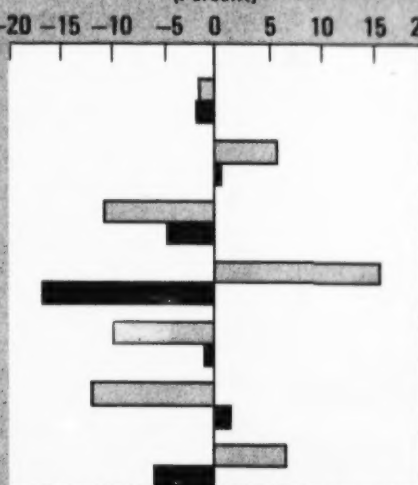
^cHistory and philosophy departments were not eligible for NSF traineeships.

SOURCE: National Science Foundation (appendix tables C-17 A thru C-17 G).

ships and traineeships
(Percent)



**Research assistantships
(Percent)**



**Teaching assistantships
(Percent)**



"Other" types
(Percent)



nts rept. ing for 1969, 1970, and 1971.
on (appendix tables C-18A through C-18G).

Full-time students beyond their first year of study increased only slightly from 1970 to 1971. Fellows-trainees in this category were reduced in every area of science. Research assistants followed the same pattern except for a slight increase in advanced students enrolled in psychology and the social sciences.

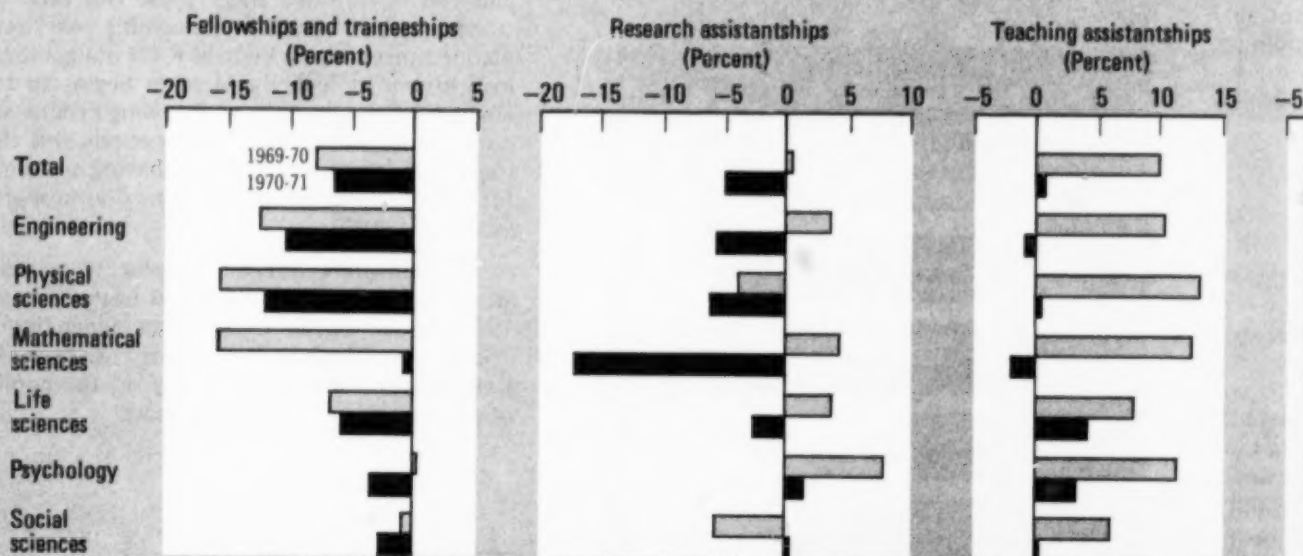
The lack of availability of teaching assistantships for students beyond their first year of study became apparent for the first time in 1971. Substantial gains in teaching assistants had been reported in every area of science in prior years.

The advanced students relying on "other" mechanisms of support increased sharply in 1971, following the pattern set in 1970. Every area of science reported increased enrollment of these students.

In the physical and mathematical sciences, 5 percent fewer U. S. citizens were enrolled in 1971 than in 1970, while in engineering and the social sciences, 1 percent fewer were enrolled that year. The life sciences remained stable, while psychology gained 5 percent, as it did in foreign enrollment.

Engineering, the field that has consistently attracted the largest proportion of foreign students, lost 3 percent of such enrollees in 1971 after showing an increase of 5 percent in 1970. The same reversal in pattern occurred in the social sciences—a 3-percent decline in 1971 followed a 7-percent increase the year before. Only in psychology was there any significant increase in foreign enrollment in 1971—5 percent.

Change in the number of beyond-first-year full-time graduate students, by type of major support and area of science



^aBased on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

SOURCE: National Science Foundation (appendix tables C-18A through C-18G).

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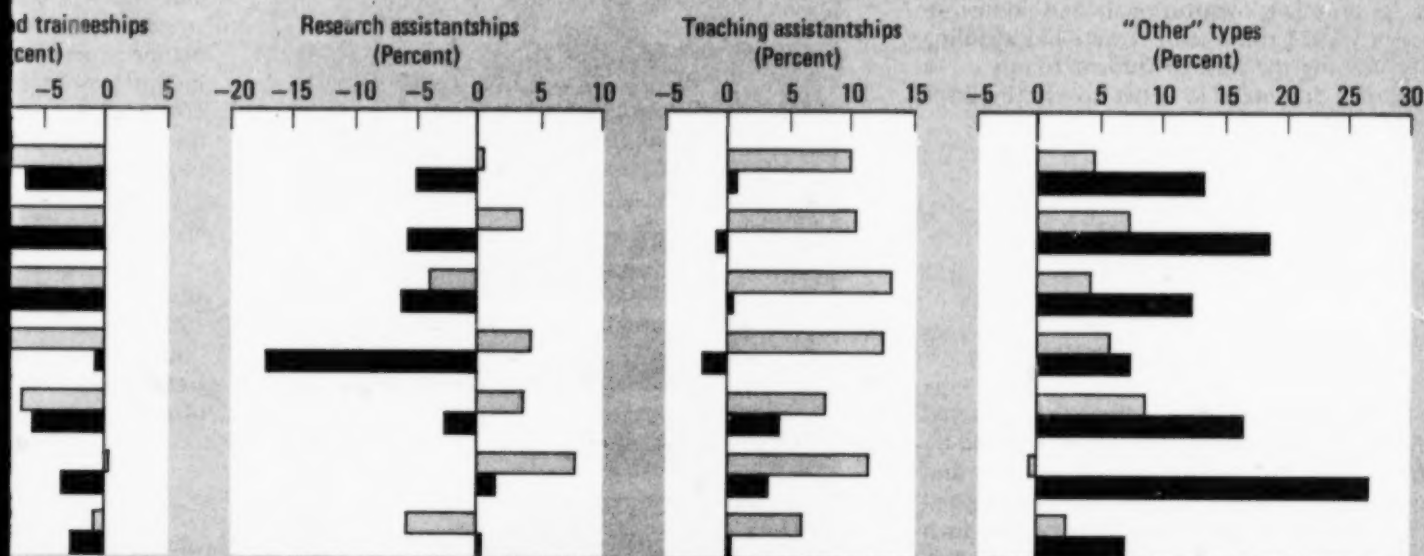
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The number of U. S. citizens holding fellowships or traineeships edged downward in every area of science at a faster rate from 1970 to 1971 than was evident from 1969 to 1970, with the physical and mathematical sciences reaching lows of 17 percent and 15 percent, respectively.

Although only two areas of science showed declines in the number of U. S. citizens holding research assistantships from 1970 to 1971—the physical and mathematical sciences—these were of sufficient magnitude to outweigh the small increases in the remaining fields of science. However, enrollment of foreign research assistants decreased in all areas except psychology, following the pattern set by foreign fellows and trainees.

beyond-first-year full-time graduate students, by type of major support and area of science, 1969-71^a



nts reporting for 1969, 1970, and 1971.
 ion (appendix tables C-18A through C-18G).

The teaching assistant holding U. S. citizenship fared only slightly better than his research assistant counterpart when areas of science were compared. Both forms of support registered reductions in the physical and mathematical sciences, but rates of decline were slightly less for teaching assistants in 1971. The number of foreign teaching assistants exhibited enrollment patterns similar to foreign fellows-trainees and research assistants — after increasing yearly, the trend was reversed from 1970 to 1971.

Both U. S. and foreign graduate students supported by "other" mechanisms increased in numbers between 1970 and 1971, in sharp contrast to the declining number receiving support through the mechanisms described above. In every area of science, the number of U. S. citizens increased to some degree; foreign students increased at even higher rates. Stiffer competition for financial aid has reversed the trend that was evident in prior years when foreign students had little or no difficulty in finding help from government, institutional, and industrial sources. By 1971 these sources were in dwindling supply, forcing the foreign student to rely more on his own resources in order to continue his graduate work.

SOURCES OF MAJOR SUPPORT

In the preceding section, discussion centered on the major mechanisms of support utilized by full-time graduate students in the sciences and engineering. These mechanisms of support will now be related to the major sources of such support during the period 1969-71. The doctorate departments supplying data for three consecutive years reported the following changes in support patterns of full-time students.

Percent change in full-time graduate enrollment, by source of major support, 1969-71^a

Sources of major support	Percent change	
	1969-70	1970-71
Total	(b)	- 1.5
Sources of outside support, total:	- 1.0	- 5.3
U. S. Government	- 5.6	- 9.6
Institutional support ^c	3.1	- 1.3
Other outside support ^d	1.7	- 5.0
Self-support	4.3	14.5

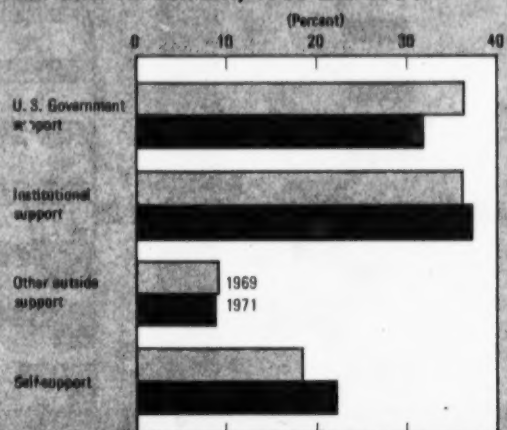
^aBased on 2,579 doctorate departments reporting for each of the years 1969, 1970, and 1971.

^bLess than 0.05 percent change.

^cIncludes institutions, State, and local governments.

^dIncludes private foundations, industry, and all other U. S. and foreign sources.

Sources of major support as percent of full-time enrollment, 1969 and 1971^a



^aBased on 2,579 doctorate departments reporting for 1969, 1970, and 1971.
SOURCE: National Science Foundation (appendix table C-17A).

All full-time graduate students during this period, while the rate of increase in the rate of supported students was upswing in

The percentage of receiving U. S. percent from While institutional support in the total self-support

Studentships under reduced by another 1 affected graduate in research reduced support and the trend may planned in institutional effect.⁴ To port were impact on for only students in

Diminished students in 1971 by "other" support. Despite in of such students

⁴National Science Foundation and Colleges (1973-300) (Washington Government)

Percent change in full-time graduate enrollment, by source of major support, 1969-71^a

Sources of major support	Percent change	
	1969-70	1970-71
Total	(b)	- 1.5
Sources of outside support, total:	- 1.0	- 5.3
U. S. Government	- 5.6	- 9.6
Institutional support ^c ..	3.1	- 1.3
Other outside support ^d ..	1.7	- 5.0
Self-support	4.3	14.5

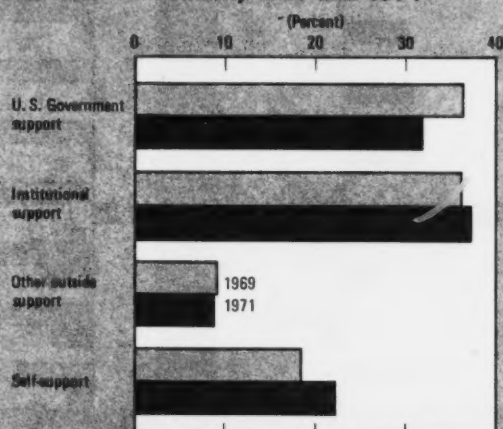
^aBased on 2,579 doctorate departments reporting for each of the years 1969, 1970, and 1971.

^bLess than 0.05 percent change.

^cIncludes institutions, State, and local governments.

^dIncludes private foundations, industry, and all other U. S. and foreign sources.

Sources of major support as percent of full-time enrollment, 1969 and 1971^a



^aBased on 2,579 doctorate departments reporting for 1969, 1970, and 1971.
SOURCE: National Science Foundation (appendix table C-17A).

All forms of traditional support available to graduate students were curtailed in the 1970-71 period, with Government-supported students being affected to the greatest extent. Acceleration in the rate of decline in the number of federally supported students contrasted sharply with the upswing in self-supported students.

The proportion of graduate students receiving U. S. Government aid in 1971 dropped 5 percent from the proportion reported in 1969. While institutional and other forms of outside support maintained their same relative share of the total from 1969 to 1971, the proportion of self-supported students increased by 4 percent.

Students receiving fellowships and traineeships under U. S. Government auspices were reduced by 10 percent from 1969 to 1970 and by another 13 percent in 1971, the most seriously affected group of all fellows-trainees. The decline in research assistantships in 1971 was based on reduced support by both the Federal Government and the institutions themselves. However, this trend may be reversed in the coming years as the planned increases in Federal R&D obligations to institutions of higher education begins to take effect.⁴ Teaching assistants receiving Federal support were on the rise in both periods, but their impact on the total is slight, having accounted for only 1 percent of all federally supported students in 1971.

Diminishing outside support to graduate students was partially offset in both 1970 and 1971 by an influx of students depending on "other" mechanisms — primarily self-support. Despite increased tuition and fees, the number of such students rose in both years.

⁴National Science Foundation, *Federal Support to Universities and Colleges and Selected Nonprofit Institutions, FY 1971* (NSF 73-300) (Washington, D. C. 20402: Supt. of Documents, U. S. Government Printing Office).

In all areas of science, reduced enrollments of federally supported students were the norm. The relative impact on the mathematical sciences students was greater than on any of the other federally supported students. Engineering and the physical and life sciences accounted for 71 percent of the students receiving Government support in 1971; together, these fields experienced a 10-percent decrease in graduate students supported through Federal programs between 1970 and 1971.

By 1971, enrollment of institutionally supported students was down in all but two areas — the life sciences and psychology. In previous years, these students were on the increase in every field of science except social. These same two fields were the only ones to increase their enrollment of students supported by all other outside sources from 1970 to 1971.

In contrast with the declining rates of enrollment of all students depending on outside support, self-supported students gained appreciably from 1970 to 1971, especially in the mathematical sciences and psychology.

Percent change in full-time graduate students by source of major support

Sources of major support	Total	Engineering
Total	- 1.5	- 2.0
U. S. Government	- 9.6	- 9.6
Institutional support	- 1.3	- 2.5
Other outside support	- 5.0	- 7.0
Self-support	14.5	17.2

^aBased on 2,579 doctorate departments reporting for 1969.

Change in the number of full-time graduate students, by type and source of major support, 1969-71^a



^aBased on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

^bLess than 0.05 percent change.

SOURCE: National Science Foundation (appendix table C-17A).

reduced enrollments of federally supported students had a negative impact on the mathematical sciences study of the other federally supported students. Life and life sciences accounted for 71 percent of government support in 1971; together, these fields experienced a decrease in graduate students supported through 1970 and 1971.

The enrollment of institutionally supported students was down in life sciences and psychology. In previous years, there was an increase in every field of science except social. The only ones to increase their enrollment of students from outside sources from 1970 to 1971.

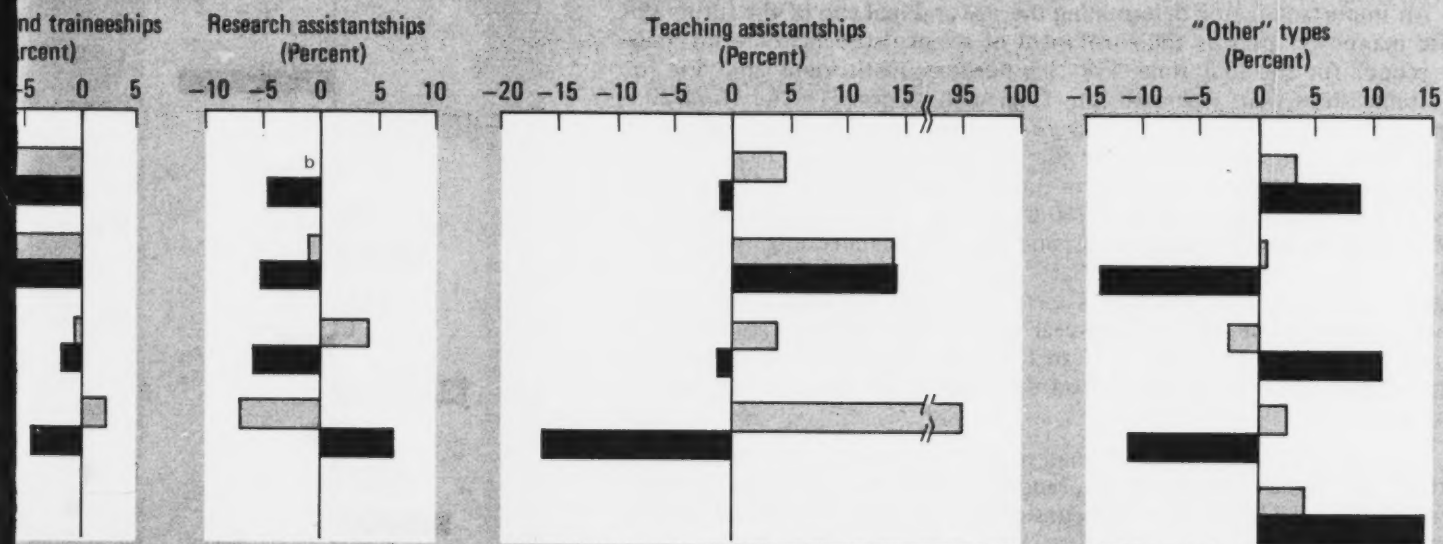
The declining rates of enrollment of all students dependent on government support gained appreciably from 1970 to 1971. Mathematical sciences and psychology.

Percent change in full-time graduate enrollment by source of major support and area of science, 1970 to 1971^a

Sources of major support	Total	Engineering	Physical sciences	Mathematical sciences	Life sciences	Psychology	Social sciences
Total	- 1.5	- 2.0	- 4.3	- 4.3	0.1	4.8	- 0.9
U. S. Government	- 9.6	- 9.6	-11.8	-19.6	- 8.8	- 4.4	- 5.7
Institutional support	- 1.3	- 2.5	- .9	- 5.8	.7	4.2	- 1.9
Other outside support	- 5.0	- 7.0	- 4.2	- 6.1	3.4	14.0	-12.8
Self-support	14.5	17.2	16.9	22.6	17.6	24.5	6.7

^aBased on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

Full-time graduate students, by type and source of major support, 1969-71^a



^aBased on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

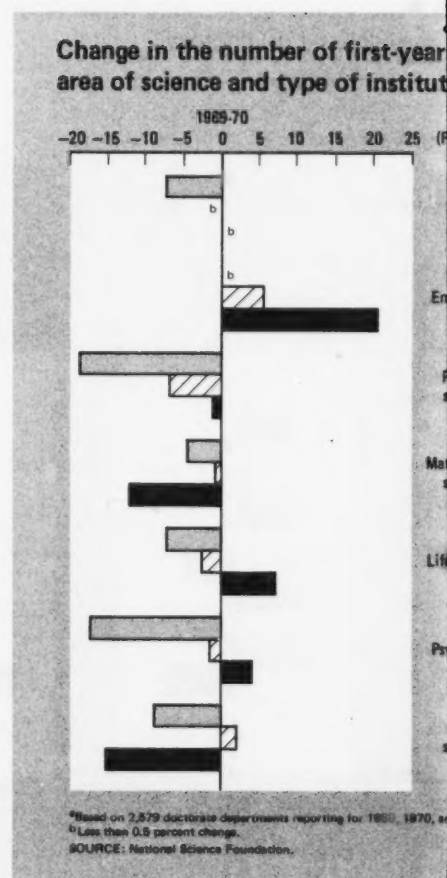
ation (appendix table C-17A).

TYPE OF INSTITUTION

An important factor determining the size and makeup of the future scientific manpower pool is the enrollment of science students entering graduate school for the first time. For this purpose, institutions applying for NSF traineeships were separated into four major types: (1) The "first 20," meaning those institutions which were selected by the largest number of applicants for NSF fellowships over the period 1968 through 1971; (2) the "developing" institutions, referring to those 65 institutions that first granted science Ph.D.'s subsequent to the 1960-61 academic year; (3) the 12 medical schools applying for NSF traineeships; and (4) the 127 remaining institutions, shown in this analysis as "intermediate" graduate schools. In each of these categories full-time enrollment data were presented for each broad area of science by level of study, i.e., first-year and beyond-first-year students, for two periods, 1969 to 1970 and 1970 to 1971. (See technical notes, appendix A, for further explanatory remarks on the classification scheme utilized for this analysis.)

Analysis in this section is confined to data reported by 212 institutions, omitting the 12 medical schools that reported a first-year enrollment of only 129 students in 1971 and were not considered illustrative of medical schools as a whole.

The "first 20" institutions reduced first-year enrollment at a greater rate than did the developing or intermediate institutions in both periods studied in virtually all areas of science.



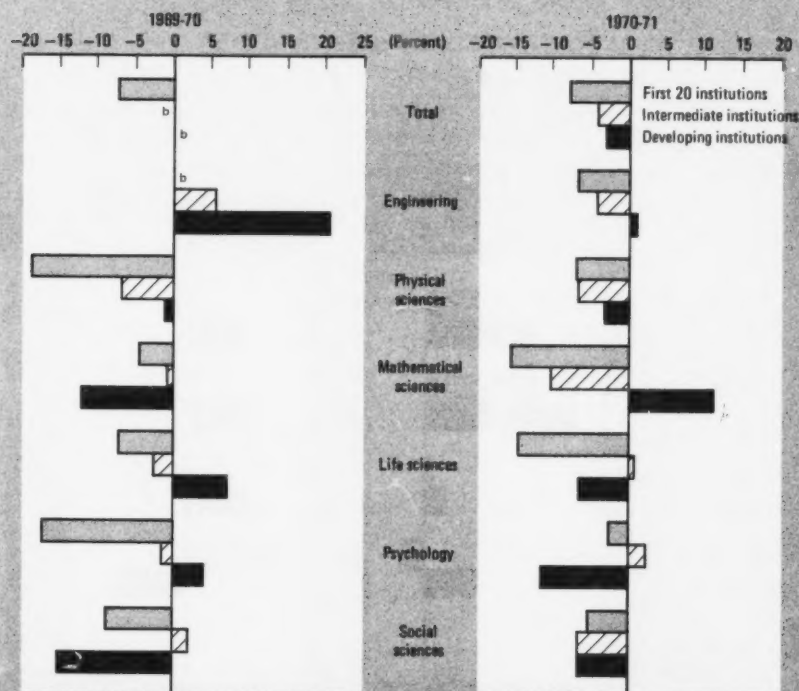
INSTITUTION

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Change in the number of first-year full-time graduate students, by
area of science and type of institution, 1969-71^a



^aBased on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

^bLess than 0.5 percent change.

SOURCE: National Science Foundation.

As expected, first-year enrollment in the 13 private institutions of the "first 20" category was affected severely by prevailing funding limitations, resulting in an enrollment drop of over 11 percent from 1969 to 1970. This group lost an additional 2 percent in first-year enrollees in the following year. In the seven public institutions the pattern was reversed: reductions in the number of first-year entrants were greatest in the 1970-71 period, 13 percent, than in the earlier period, 4 percent.

Full-time enrollment in the "first 20" institutions was down in both periods, with first-year enrollment showing losses in each area of science.

Percent change in full-time enrollment in "first 20" institutions^a

Area of science	Full-time graduate students			
	Total		First year	
	1969-70	1970-71	1969-70	1970-71
Total . . .	- 2.3	- 4.2	- 7.4	- 7.8
Engineering . . .	.1	- 3.6	(b)	- 6.7
Physical sciences .	- 6.1	- 5.4	- 18.4	- 7.1
Mathematical sciences	- .5	- 4.4	- 4.5	- 15.4
Life sciences . . .	1.0	- 7.3	- 7.2	- 14.6
Psychology . . .	- 5.6	1.8	- 17.3	- 2.6
Social sciences . .	- 3.5	- 3.3	- 8.8	- 5.1

^aBased on selection of these institutions by the most number of NSF Fellows from 1968 through 1971.

^bLess than 0.05 percent change.

In contrast to the "first 20" institutions, the 65 "developing" graduate schools, as shown below, actually gained in overall full-time enrollment in all areas of science during the first period.

These enrollment gains were not maintained at the same rate in the following period, however, and psychology and the social sciences actually reflected losses. The number of first-year students declined in these developing universities in all but engineering and the mathematical sciences in the latest period, indicating this group of institutions was also beginning to feel the slump in science enrollment, but not to the same extent as that of the "first 20" schools.

Percent change in full-time enrollment in "developing" institutions^a

Area of science	Full-time graduate students			
	Total		First year	
	1969-70	1970-71	1969-70	1970-71
Total . . .	7.5	0.3	0.1	- 3.0
Engineering . . .	15.5	6.5	20.9	1.0
Physical sciences .	2.0	.5	- .9	- 3.3
Mathematical sciences	5.0	1.4	- 12.0	11.7
Life sciences . . .	9.5	2.5	7.3	- 6.7
Psychology	8.0	- 2.3	4.1	- 11.5
Social sciences . .	7.6	- 6.1	- 15.5	- 6.4

^aBased on the institution's first awarding of science Ph.D.'s in academic year 1960-61, according to data from the Office of Education.

rollment in the 13 "first 20" category was affected by funding limitations, with a drop of over 11 percent. This group lost an average of 11 percent of its first-year enrollees in the public institutions and 13 percent in the private institutions in the number of first-year students. The greatest decline was in the life sciences, more than in the earlier periods.

The "first 20" institutions, with first-year enrollments in each area of

In contrast to the "first 20" institutions, the 65 "developing" graduate schools, as shown below, actually gained in overall full-time enrollment in all areas of science during the first period.

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The group of 127 intermediate institutions was also affected by the enrollment slump, with only the life sciences and psychology reflecting any measurable gains in first-year students in the 1970-71 period. Increases in engineering and the social sciences from 1969 to 1970 were not maintained in 1971.

Enrollment in
graduate students^a

	First year	
	1969-70	1970-71
Total . . .	- 7.4	- 7.8
Engineering	(b)	- 6.7
Physical sciences . . .	- 18.4	- 7.1
Mathematical sciences . .	- 4.5	- 15.4
Life sciences	- 7.2	- 14.6
Psychology	- 17.3	- 2.6
Social sciences	- 8.8	- 5.1

most number of NSF

Percent change in full-time enrollment
in "developing" institutions^a

Area of science	Full-time graduate students			
	Total		First year	
	1969-70	1970-71	1969-70	1970-71
Total . . .	7.5	0.3	0.1	- 3.0
Engineering	15.5	6.5	20.9	1.0
Physical sciences . .	2.0	.5	- .9	- 3.3
Mathematical sciences	5.0	1.4	- 12.0	11.7
Life sciences	9.5	2.5	7.3	- 6.7
Psychology	8.0	- 2.3	4.1	- 11.5
Social sciences	7.6	- 6.1	- 15.5	- 6.4

^aBased on the institution's first awarding of science Ph.D.'s in academic year 1960-61, according to data from the Office of Education.

Percent change in full-time enrollment
in "intermediate" institutions^a

Area of science	Full-time graduate students			
	Total		First year	
	1969-70	1970-71	1969-70	1970-71
Total . . .	(b)	- 0.5	- 0.2	- 4.2
Engineering	2.7	- 2.0	5.5	- 4.4
Physical sciences . .	- 3.1	- 4.7	- 6.9	- 6.9
Mathematical sciences	1.6	- 5.0	- .8	- 10.1
Life sciences	- .8	1.8	- 2.4	.5
Psychology	1.7	6.5	- 1.6	2.4
Social sciences	- .1	1.5	2.1	- 6.4

^aBased on the 127 remaining doctorate-granting institutions applying for NSF traineeships.

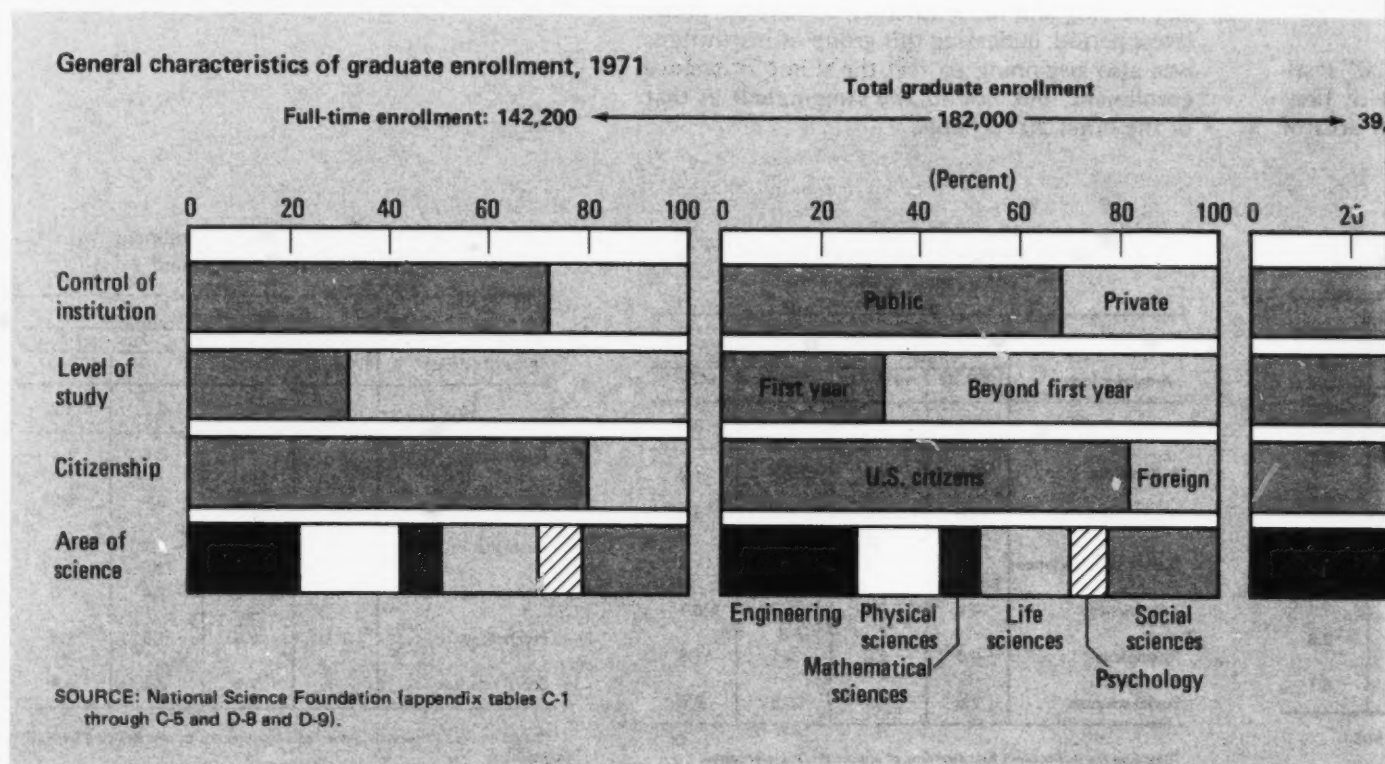
^bLess than 0.05 percent change.

Section 2. CHARACTERISTICS OF GRADUATE STUDENT FALL 1971

General Enrollment Patterns

The preceding section presented trend data reported by the 2,579 doctorate science departments that submitted information over a 3-year period, 1969-71. This section analyzes the data supplied by the entire 2,990 doctor-

ate departments in the 224 doctorate-granting institutions in 1971. These institutions reported a total of 182,000 graduate students in the fall of 1971; 142,169 of these were



CHARACTERISTICS OF GRADUATE STUDENT SUPPORT, 1971

and data reported by the 2,579 doc-
ed information over a 3-year period,
supplied by the entire 2,990 doctor-

ate departments in the 224 doctorate-granting institutions applying for NSF
traineeships in 1971. These institutions enrolled 182,001 graduate students
in the fall of 1971; 142,169 of these were full-time students, or 78 percent.

rollment, 1971

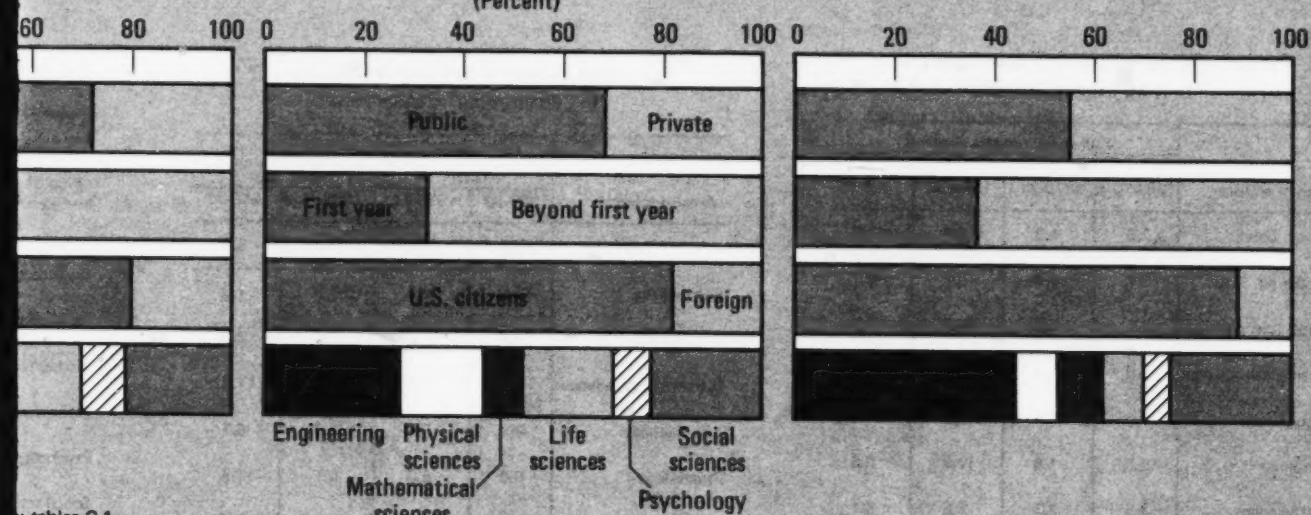
t: 142,200

Total graduate enrollment

182,000

39,800: Part-time enrollment

(Percent)



x tables C-1

Publicly controlled institutions enrolled more than two-thirds, or 123,676, of all graduate students, 82 percent of whom attended full time. Registration in privately controlled institutions, on the other hand, reflected a considerably smaller proportion of full-time students—69 percent. Students who had completed one or more years of graduate study made up the largest portion of full-time enrollments, over two-thirds, with little distinction being evident between the proportion attending public and private institutions, as shown below:

Control of institution	Percent distribution		
	Total	First-year students	Beyond-first-year students
Public	100	32	68
Private	100	31	69

Foreign students represented 20 percent of full-time graduate enrollment and 11 percent of the part-time enrollment. Little more than two-thirds of foreign full-time students were enrolled in public institutions. An even larger proportion, nearly three-fourths, of U.S. citizens were enrolled in public universities, as shown here:

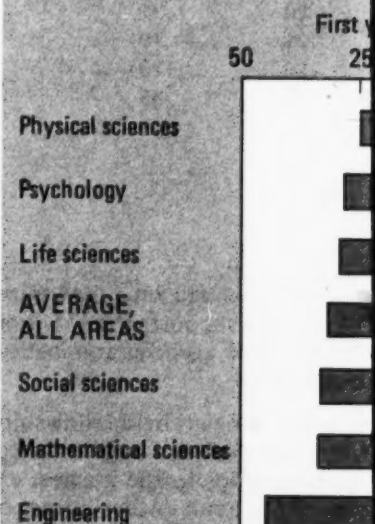
Control of institution	Percent distribution	
	U.S. citizens	Foreign students
Total	100	100
Public	73	67
Private	27	33

Note: See appendix tables D-8 and D-9 for detailed data on institutional control.

Engineering attracted 38 percent of foreign full-time enrollment, almost double the 20-percent share reported in the second largest field of study, the physical sciences. The heaviest concentration of U.S. citizens was found in the social and life sciences, registering 22 percent each.

The largest proportion of full-time students enrolled beyond their first year were in the physical sciences. Engineering students in their first year were the only group among the various fields to exceed one-third of total enrollment.

Full-time graduate students, by



SOURCE: National Science Foundation

institutions enrolled more than two-thirds, or students, 82 percent of whom attended full time. Controlled institutions, on the other hand, reflected a smaller portion of full-time students — 69 percent. Students one or more years of graduate study made up the majority of enrollments, over two-thirds, with little distinction in the proportion attending public and private in-

Institution	Percent distribution		
	Total	First-year students	Beyond-first-year students
.....	100	32	68
.....	100	31	69

represented 20 percent of full-time graduate enrollment, the part-time enrollment. Little more than two-thirds of students were enrolled in public institutions. An average of three-fourths of U.S. citizens were enrolled in graduate study here:

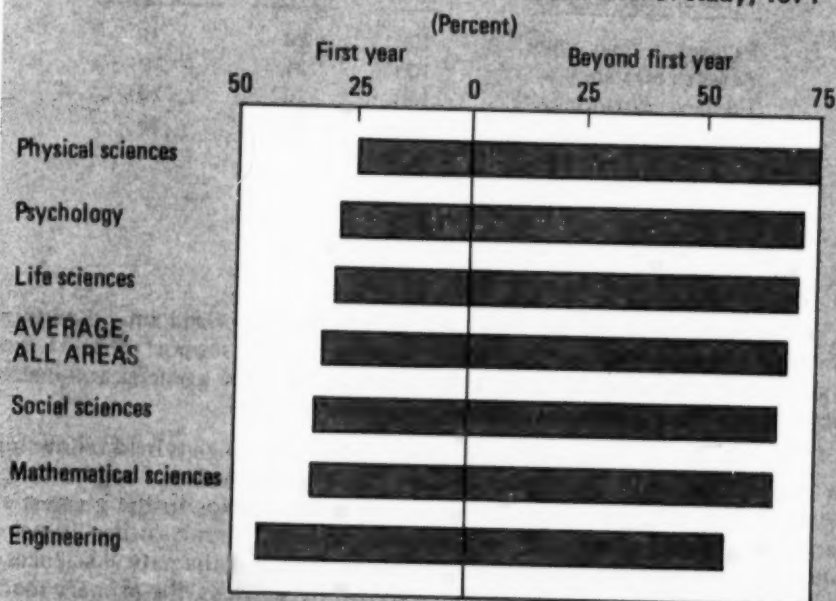
Institution	Percent distribution	
	U.S. citizens	Foreign students
.....	100	100
.....	73	67
.....	27	33

See tables D-8 and D-9 for detailed data on enrollment by control.

8 percent of foreign full-time enrollment, almost entirely reported in the second largest field of study, the social sciences. The highest concentration of U.S. citizens was found in engineering, registering 22 percent each.

Of full-time students enrolled beyond their first year of study, the highest concentration of U.S. citizens was found in engineering, registering 22 percent each.

Full-time graduate students, by area of science and level of study, 1971



SOURCE: National Science Foundation (appendix table C-5).

Types of Major Support

The number of fellowships-traineeships in 1971 exceeded that of teaching assistantships only slightly, with each accounting for approximately one-fourth of full-time enrollments, and research assistantships accounted for another fifth. When examined in terms of types of support, the various areas of science presented a diverse picture. In the physical sciences, for instance, over 85 percent of the graduate students had some form of fellowship, traineeship, or assistantship, but in the social sciences the percentage was only about 58.

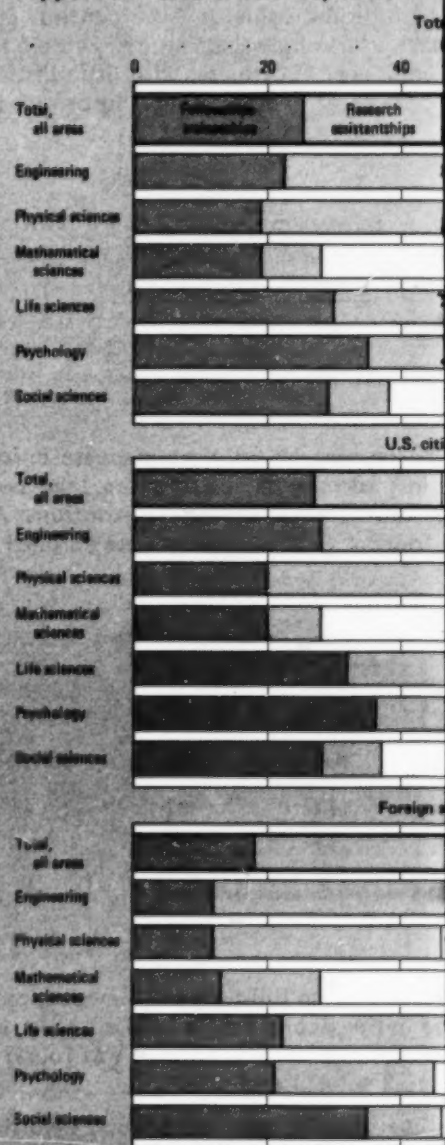
Between 70 percent and 79 percent of students relying on some form of traditional support were advanced students, while 58 percent of those relying on "other" types of support were in this category, as illustrated below:

Types of major support	Total	Percent distribution	
		First-year students	Beyond-first-year students
Fellowships-traineeships . . .	100	29	71
Research assistantships . . .	100	21	79
Teaching assistantships . . .	100	30	70
Other types of support . . .	100	43	58

Graduate students holding U.S. citizenship depended on fellowships-traineeships more than on any other form of outside support in 1971. Foreign students, because of restrictions imposed by some agencies and institutions, depended most heavily on research assistantships.

In the life sciences and psychology, more U.S. citizens held fellowships or traineeships than any other support. In the physical and mathematical sciences, U.S. citizens relied upon teaching assistantships to the greatest extent; in engineering and the social sciences, primarily upon "other" types of support. This pattern — except in the physical and mathematical sciences — was not repeated for foreign students. In the life sciences, the primary mechanism was the research assistantship, and in engineering, psychology, and the social sciences, "other" types of support were the prime source.

Distribution of full-time graduate student support and area of science, 1971



SOURCE: National Science Foundation (appendix table)

in 1971 exceeded that of teaching assistantships accounting for approximately one-third of the total. Research assistantships accounted for 21 percent of the total. By type of support, the various areas of science, for instance, the physical sciences, for instance, 58 percent of those relying on some form of fellowship, training assistantships, and the percentage was only

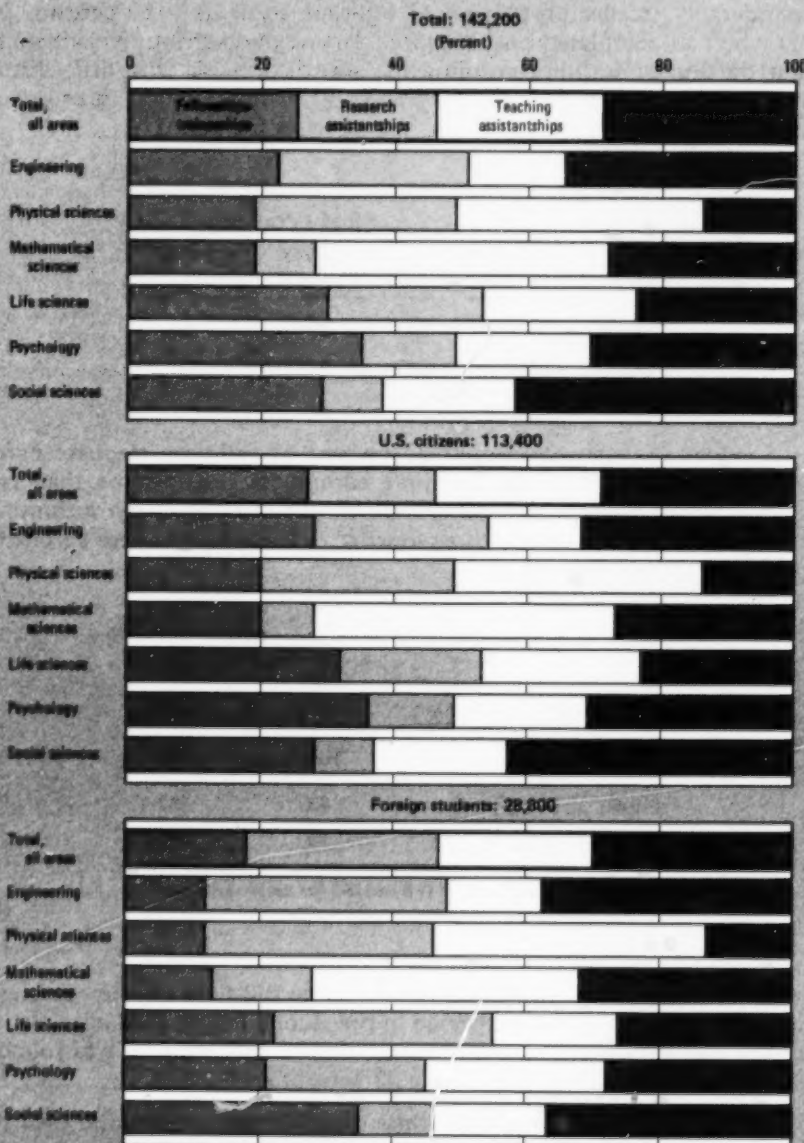
students relying on some form of fellowship, while 58 percent of those relying on some other category, as illustrated below:

Percent distribution	
First-year students	Beyond-first-year students
29	71
21	79
30	70
43	58

ship depended on fellowships of outside support in 1971. For example, by some agencies and institutions.

are U.S. citizens held fellowships in the physical and mathematical sciences to the greatest extent primarily upon "other" types of support. In the physical and mathematical sciences — life sciences, the primary mechanism of support, engineering, psychology, and the social sciences, the prime source.

Distribution of full-time graduate students, by type of major support and area of science, 1971



SOURCE: National Science Foundation (appendix tables C-6 and C-7).

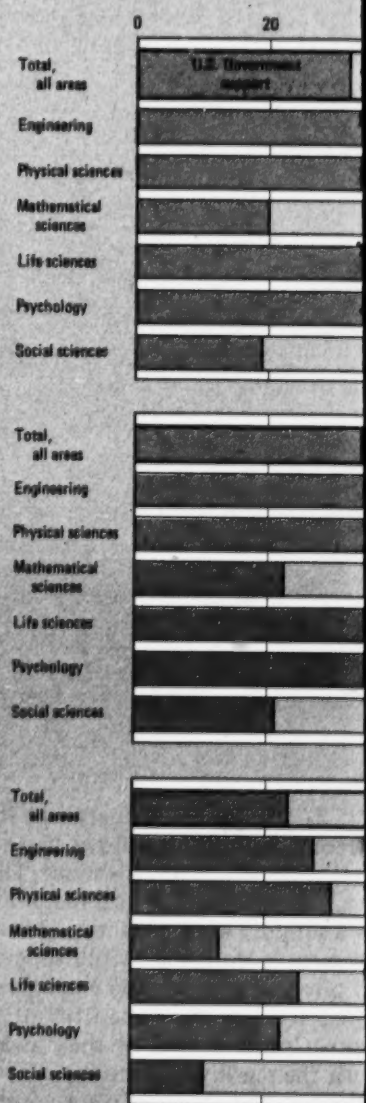
Sources of Major Support

Full-time students received the major portion of their support in 1971 from their own institutions and/or State and local governments, with Federal support ranking second.

In three areas of science — the physical, mathematical, and life — institutional support was the major source of financial aid. In the social sciences, students relied primarily on self-support; in engineering and psychology, upon the Federal Government.

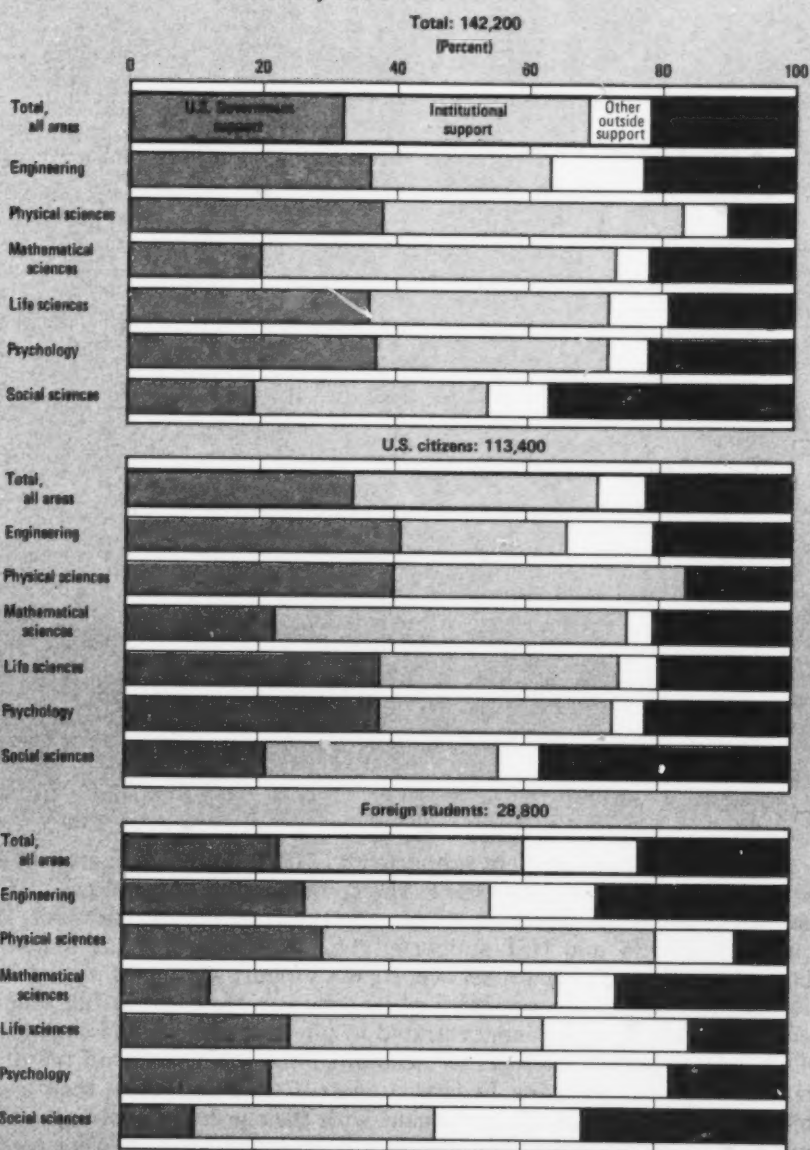
Approximately one-third of all U.S. citizens attending graduate school full time in these fields received support from the Federal Government, but an even larger proportion depended upon institutional support. Foreign students displayed a strong dependency on institutional support, in virtually all areas of science, since certain types of Federal assistance were not available to them.

Distribution of full-time graduate support and area of science, 1971



SOURCE: National Science Foundation

Distribution of full-time graduate students by source of major support and area of science, 1971



SOURCE: National Science Foundation (appendix tables C-9, and D-1 - D-7).

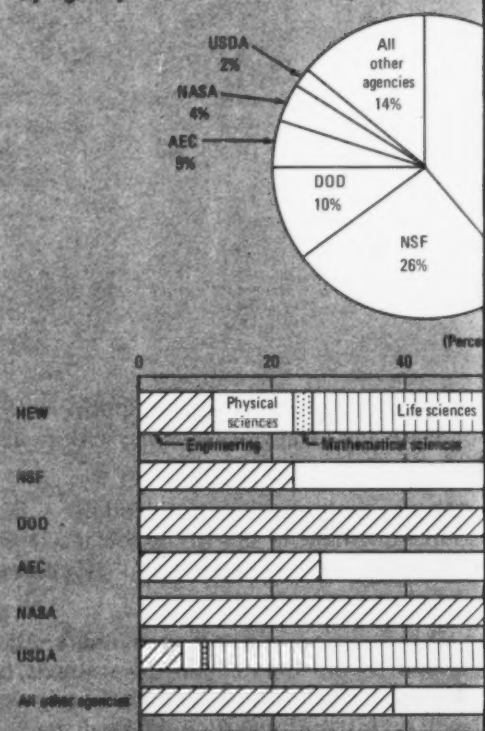
major portion of their support in 1971
ate and local governments, with Federal

physical, mathematical, and life — insti-
ce of financial aid. In the social sciences,
upport; in engineering and psychology,

U.S. citizens attending graduate school
port from the Federal Government, but
upon institutional support. Foreign stu-
on institutional support, in virtually all
of Federal assistance were not available

The Federal Government supported 45,101 full-time graduate students, or 32 percent of the total, in 1971. The accompanying chart shows that two agencies combined to generate almost two-thirds of the awards made; HEW supported 17,734 and NSF supported 11,598. Because of the major role played by the Public Health Service, HEW's support was concentrated in the life sciences, where over one-third of its awards were made to full-time students. NSF's support was concentrated in physical sciences and engineering. DOD, AEC, and NASA together accounted for less than one-fifth of the graduate students receiving Federal support. Concentration of their awards among fields of science was consonant with their primary missions. For example, over one-half of DOD- and NASA-supported students were enrolled in engineering, and nearly two-thirds of AEC-supported students were enrolled in physical sciences programs.

Distribution of federally supported full-time graduate students by agency and area of science, 1971

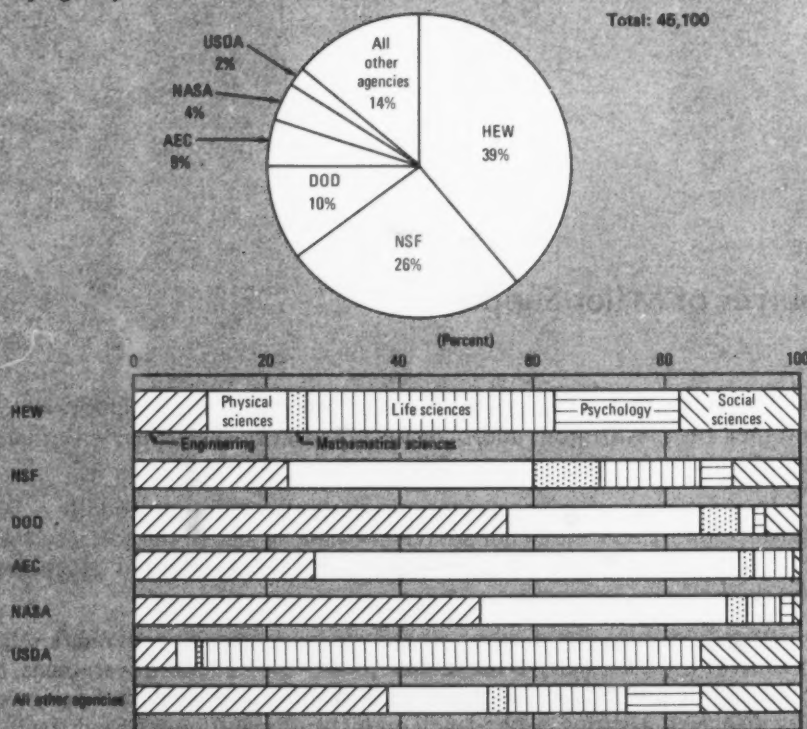


SOURCE: National Science Foundation (appendix table C-9).

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ment supported 45,101 full-time graduate students, in 1971. The accompanying chart shows that two agencies generate almost two-thirds of the awards made; HEW and NSF supported 11,598. Because of the major role of the Health Service, HEW's support was concentrated in the life sciences; one-third of its awards were made to full-time students concentrated in physical sciences and engineering. Together, HEW and NSF accounted for less than one-fifth of the total Federal support. Concentration of their awards was consonant with their primary missions. For example, two-thirds of AEC-supported students were enrolled in nuclear programs.

Distribution of federally supported full-time graduate students, by agency and area of science, 1971

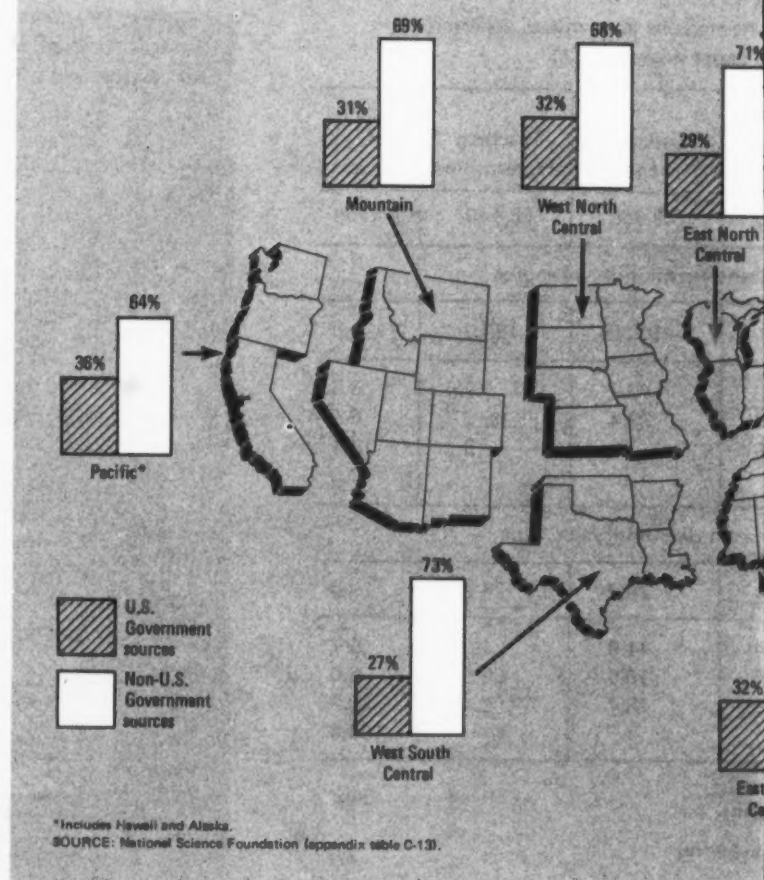


SOURCE: National Science Foundation (appendix table C-9).

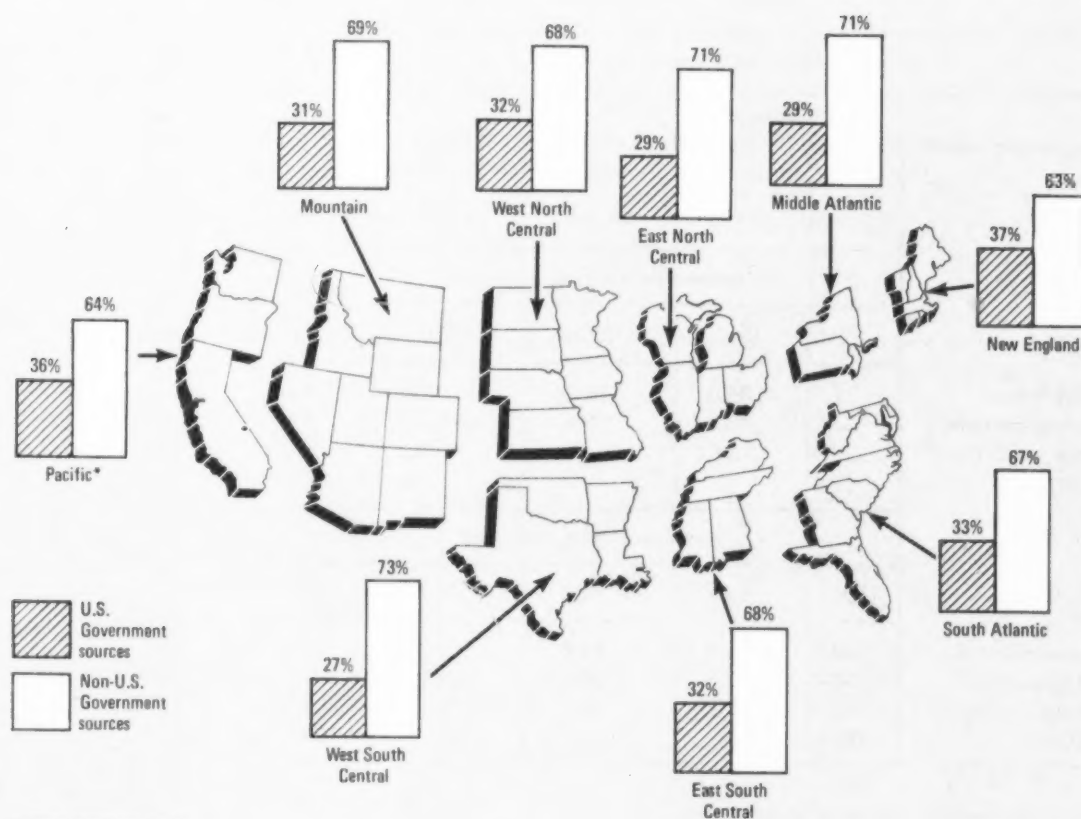
An examination of the geographic distribution of full-time students showed a concentration of 21 percent in the East North Central division, followed in order by the Middle Atlantic, with 17 percent, and the Pacific, with 16 percent. Each division was further analyzed in terms of Federal and non-Federal support. Thirty-seven percent of New England's students received support of some sort from the Federal Government. The Pacific ranked a close second, with 36 percent; this division was completely dominated by one State, California, in which over 70 percent of the students receiving Federal support were located.

The West South Central division had the lowest percentage of federally supported students, 27 percent. The phenomenon of one State enrolling a majority of the federally supported students is also reflected here, where Texas enrolled 61 percent, as well as the Middle Atlantic and New England divisions, where New York registered 57 percent, and Massachusetts, 64 percent, respectively.

Geographic distribution of full-time graduate students, by source of major support, 1971



Geographic distribution of full-time graduate students, by source of major support, 1971



A little over two-thirds of all full-time graduate students, or 97,068, received their support from outside the Federal Government in 1971. More than one-half of these students received institutional support which includes that from State or local governments. One-fourth of the students receiving such institutional support were studying in the physical sciences. Students dependent upon nonprofit foundations and self-support were concentrated in the social sciences. Engineering dominated the support from the industrial sector as well as that from all "other" sources.

Nearly two-thirds of all fellowships were financed by the Federal Government. More than one-half of these fellowships were funded by institutions of higher learning. Students dependent upon "other" mechanical or electrical self-supporting.

Of the federally supported students, nearly two-thirds of the fellowships-traineeships or research assistantships were financed by the Federal Government. Of the time students received federally financed

Percent distribution of full-time graduate students in doctorate departments, by source and type of major support, 1971

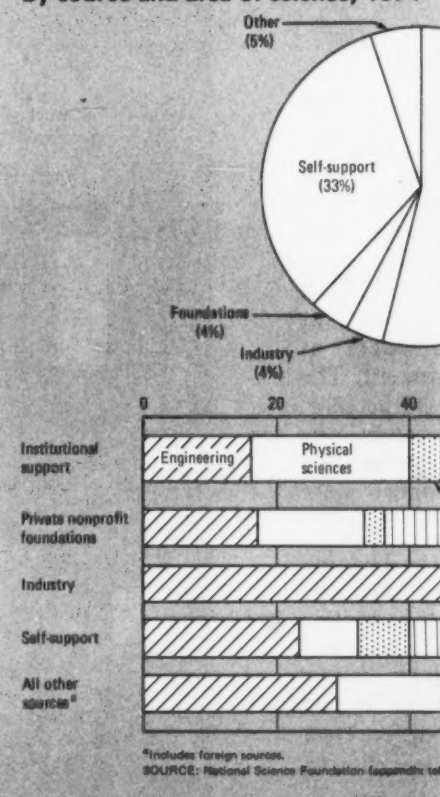
Sources of major support	Total	Fellowships and traineeships	Research assistantships	Teaching assistantships	Other types of support
Total (number)	142,169	36,103	29,668	35,140	41,258
Percent distribution, by source					
Total	100.0	100.0	100.0	100.0	100.0
U.S. Government	31.7	64.2	63.7	1.2	6.3
Institutional support ^{a/}	37.0	19.7	28.4	98.0	6.4
Other outside support ^{b/}	8.8	16.0	7.9	.8	10.1
Self-support	22.4	—	—	—	77.3
Percent distribution, by type					
Total	100.0	25.4	20.9	24.7	29.0
U.S. Government	100.0	51.4	41.9	1.0	5.7
Institutional support	100.0	13.6	16.0	65.5	5.0
Other outside support	100.0	46.0	18.7	2.1	33.2
Self-support	100.0	—	—	—	100.0

^{a/} Includes institutions and State and local governments.

^{b/} Includes private foundations, industry, and foreign sources.

SOURCE: National Science Foundation (appendix table C-10).

Distribution of nonfederally supported students by source and area of science, 1971



graduate students, or 97,068, received support from the Federal Government in 1971. More institutional support which includes the fourth of the students receiving support in the physical sciences. Students receiving self-support were concentrated in the support from the industrial

Nearly two-thirds of all fellowships-traineeships and research assistantships were financed by the Federal Government. Almost all teaching assistantships were funded by institutions or State and local governments. Those students depending upon "other" mechanisms of support were predominantly self-supporting.

Of the federally supported students, over 90 percent utilized either fellowships-traineeships or research assistantships. Only 1 percent of full-time students received federally financed teaching assistantships.

Students in doctorate departments, by source of support, 1971

Research assistantships	Teaching assistantships	Other types of support
9,668	35,140	41,258

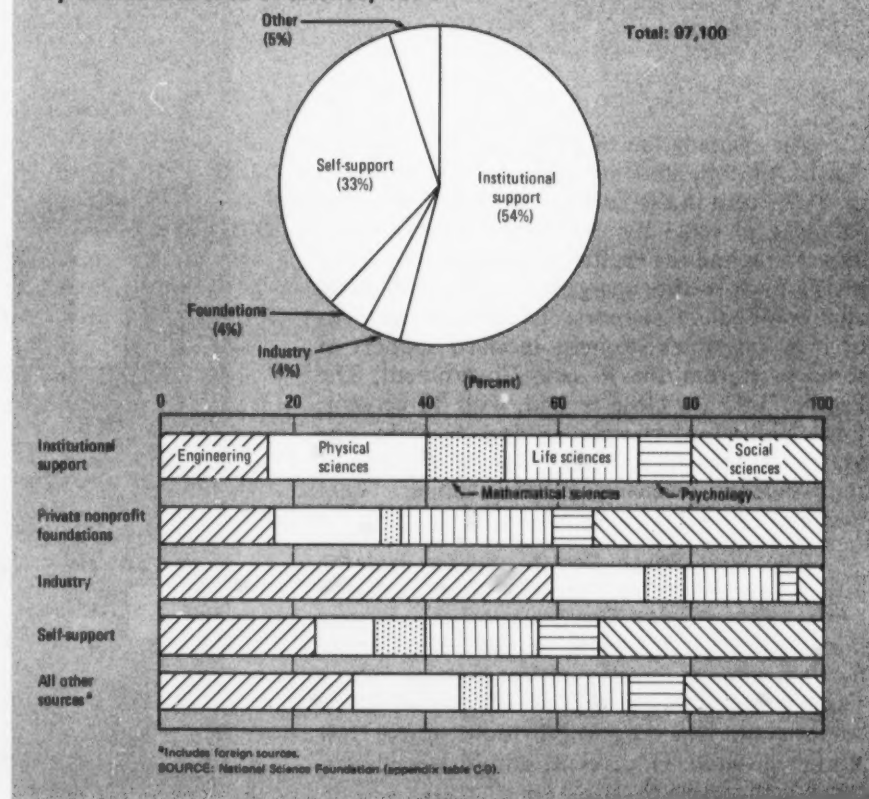
Distribution, by source

100.0	100.0	100.0
63.7	1.2	6.3
28.4	98.0	6.4
7.9	.8	10.1
-	-	77.3

Distribution, by type

20.9	24.7	29.0
41.9	1.0	5.7
16.0	65.5	5.0
18.7	2.1	33.2
-	-	100.0

Distribution of nonfederally supported full-time graduate students, by source and area of science, 1971



Section 3. SCIENCE FACULTY AND POSTDOCTORALS

Trends, 1960-71⁵

For the purpose of this report, staff members with an academic rank of instructor or above who are involved in either undergraduate or graduate programs of an institution are termed "faculty". If a staff member teaches one or more courses or seminars or if he directs the research of one or more students, he is considered to be a full-time member of the faculty. The term "graduate" faculty is used here to refer to those staff members who are significantly involved in the graduate academic program only. Part-time graduate faculty members have major responsibilities outside of the department, such as administrators, affiliate professors, extension service, museum staff, etc.

Science departments reported an increase in full-time faculty of some 1,300 between 1969 and 1971, a gain of less than 3 percent. This rise is probably a reflection of the increasing teaching load imposed by the 8-percent increase in total enrollment for degree credit in all fields from 1969 to 1971.⁶ Evidence of the pattern of increased undergraduate teaching responsibilities is supported by data available from OE which shows an increase of 8 percent from academic year 1969 to 1970 and another 3 percent from 1970 to 1971 in the number of bachelor's and first professional degrees awarded in the sciences and engineering.⁷

Both engineering and the mathematical sciences showed decreases in the number of full-time faculty from 1970 to 1971. Among the remaining areas of science, all but the life sciences showed slower rates of increase in 1971; full-time faculty in the life sciences increased by 2 percent in both periods.

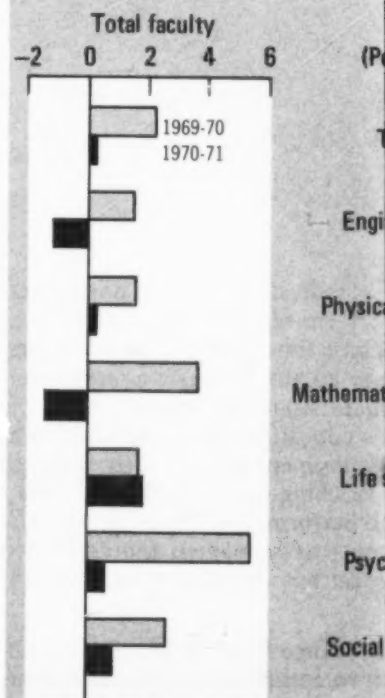
Except for the life sciences where graduate faculty increased at a slightly higher rate in 1971 than in 1970, the number of such personnel remained relatively stable in all remaining fields. During the previous period, every field showed considerable gains.

⁵ Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.

⁶ Advance data on *Opening Fall Enrollment*, 1971 from the Office of Education.

⁷ Department of Health, Education, and Welfare, Office of Education, *Earned Degrees Conferred*, various years.

Change in the number of full-time

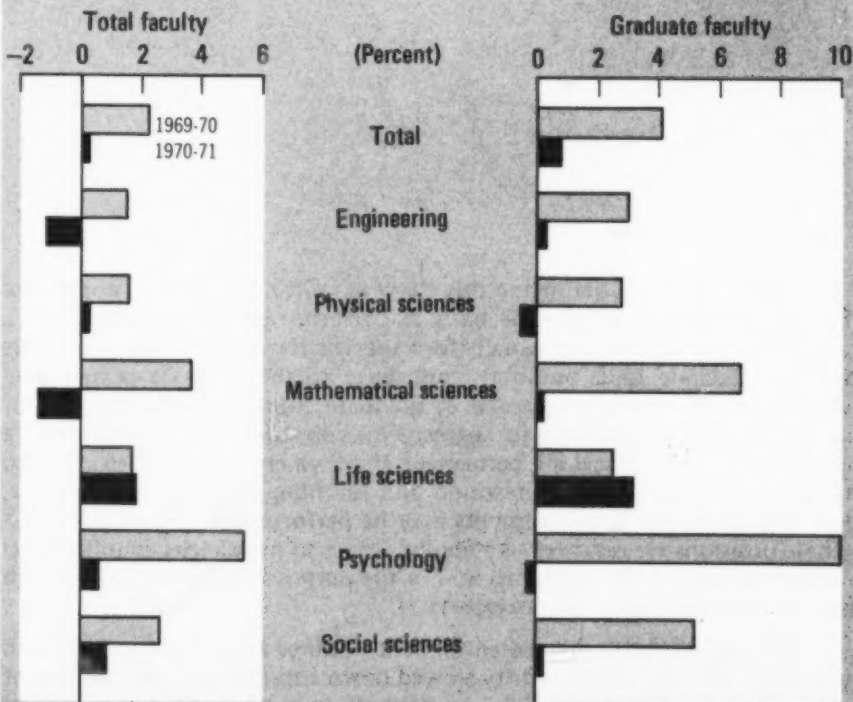


⁸Based on 2,579 doctorate departments reporting for 1969, 1970, and 1971.
SOURCE: National Science Foundation (a)

SCIENCE FACULTY AND POSTDOCTORALS

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 involved in either undergraduate or graduate
 termed "faculty". If a staff member teaches
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Change in the number of full-time faculty, by area of science, 1969-71^a

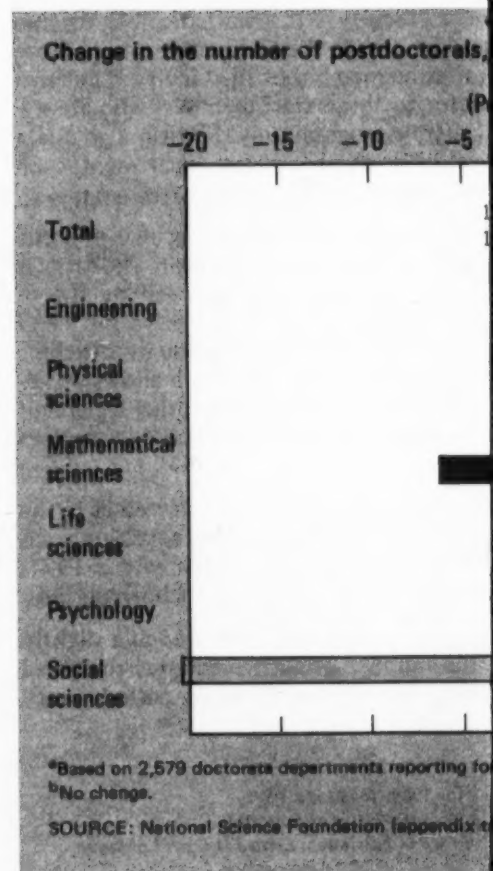


ing for 1969, 1970, and 1971.
 1971 from the Office of Education.
 re, Office of Education, *Earned Degrees Conferred*,

^aBased on 2,579 doctorate departments reporting for 1969, 1970, and 1971.
 SOURCE: National Science Foundation (appendix table C-19).

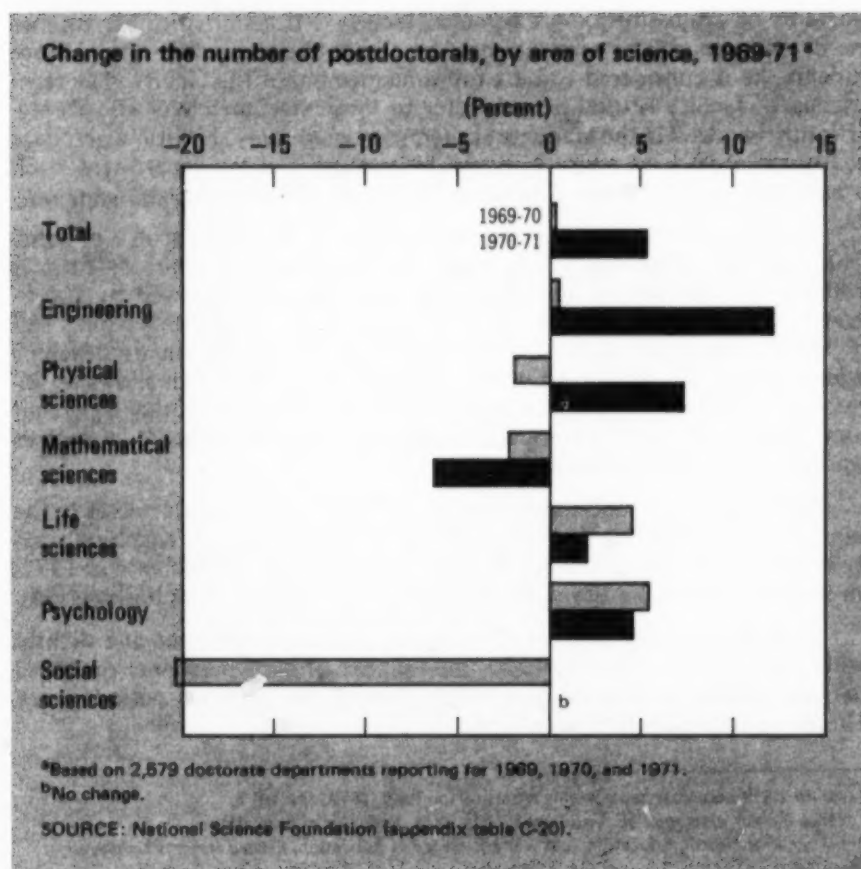
Postdoctorals are defined in this study as individuals holding doctorates who are assigned on a full-time basis to perform research or to study in a graduate science department, usually for a specific time period. These scholars have no academic rank but may contribute to the graduate program by lecturing or supervising the work of graduate students. Appointments of this type enable the scholar to augment his education and experience in a specific field prior to seeking permanent employment and, in turn, tend to strengthen the department's research and teaching capabilities. Currently, some holders of these appointments may be performing a "holding action," as these positions are regarded as stepping stones to permanent appointments in either industry or higher education. For the purpose of this report, research associates are included in this category.

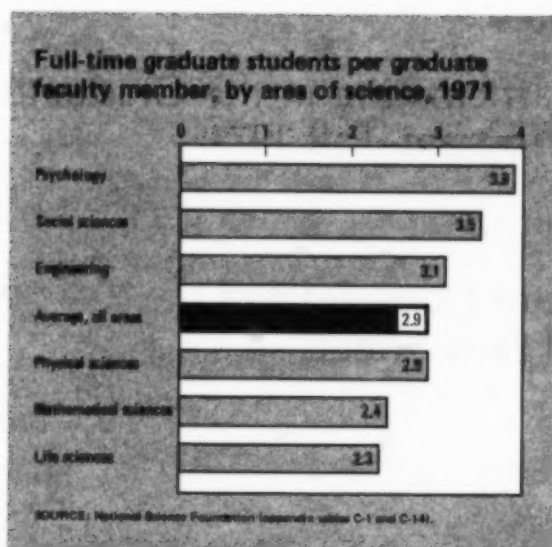
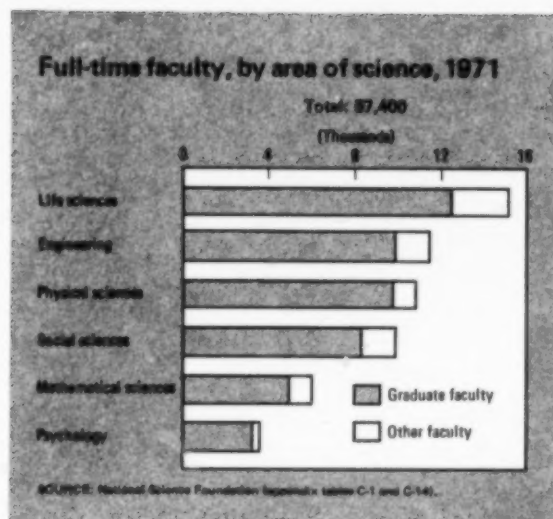
Although graduate science enrollment declined from 1970 to 1971 and the growth rate of full-time faculty slowed down considerably, the number of postdoctorals accelerated rapidly, particularly in engineering. Every area of science except the mathematical and social sciences experienced an increase in postdoctorals. Because data for this study were compiled from applications to the NSF Traineeship Program, the life sciences may be understated.



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Postdoctoral enrollment declined from 1970 to 1971 and enrollment slowed down considerably, the number of postdoctorals, particularly in engineering. Every area of science and social sciences experienced an increase in postdoctorals for this study were compiled from applications for postdoctoral fellowships. For the life sciences, the life sciences may be understated.





Fall 1971 Characteristics⁸

Eighty-five percent of the 57,363 full-time faculty members reported by doctorate science departments in 1971 were classified as graduate faculty. The life sciences, as in prior years, accounted for the largest number, over one-fourth of the graduate faculty.

The initial publication in this series reported a ratio of 3.3 full-time graduate students per graduate faculty member in 1966.⁹ By 1971, this ratio had been reduced to 2.9. Psychology, which enrolled the lowest number of students—9 percent of the total—had the highest ratio, and the life sciences, representing 20 percent of the students, had the lowest.

Seventy-one percent of the postdoctorals reported in 1971 were classified as "recent" doctorals, referring to those who received their doctorate some time after 1967. The highest concentration within this group, 77 percent, occurred in the physical sciences.

The physical sciences had the lowest faculty to postdoctoral ratio. This field accounted for 20 percent of the graduate faculty and 43 percent of the postdoctorals. The social sciences had the highest ratio, and accounted for 17 percent of the faculty at the graduate level and only 2 percent of the postdoctorals.

When the doctorate-granting institutions reporting in 1971 were classified according to control of the institution, a close correlation was evident between graduate faculty and graduate students. Public institutions attracted over 71 percent of both faculty and students. However, the publicly controlled institutions employed just over one-half of the postdoctorals.

⁸Based on 2,990 doctorate departments reporting for 1971.

⁹National Science Foundation, *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1965 and Fall 1966* (NSF 68-13)(Washington, D.C. 20402: Supt. of Documents, U.S. Government Printing Office), p. 59.

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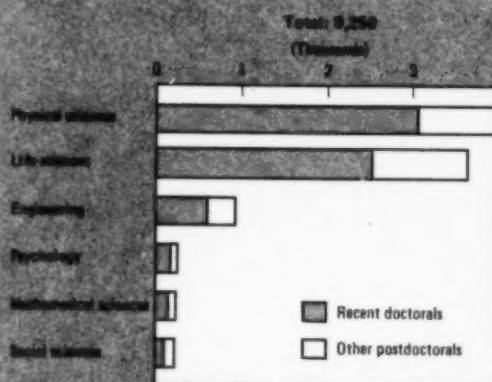
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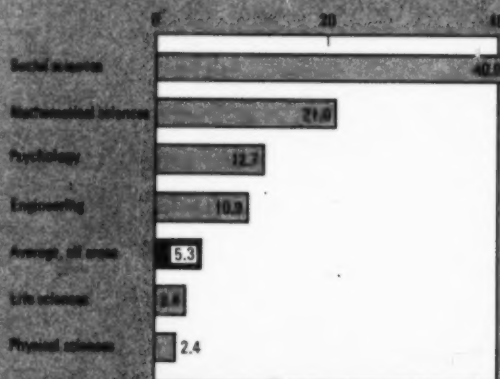
⁹National Science Foundation, *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1965 and Fall 1966* (NSF 68-13)(Washington, D.C. 20402: Supt. of Documents, U.S. Government Printing Office), p. 59.

Postdoctorals, by area of science, 1971



SOURCE: National Science Foundation (approximate data C-141).

Full-time graduate faculty per post-doctoral, by area of science, 1971



SOURCE: National Science Foundation (approximate data C-141).

APPENDIXES

- A. Technical Notes
- B. Institutions Participating in the Graduate
Traineeship Program, Fall 1971
- C. Statistical Tables
- D. Instructions and Consolidated
Departmental Data Sheets

APPENDIX A

Technical Notes

Table	Page
A-1 Doctorates awarded in the sciences and engineering by the 224 institutions applying for NSF traineeships, compared with total science doctorates granted by all U. S. institutions of higher education, by area of science, academic years ended June 30, 1967-71	24
A-2 Graduate science enrollment in 227 doctorate institutions covered in the 1970 study, compared with 1970 enrollment for advanced degrees, by area of science and department degree level	25
A-3 Number of doctorate departments in the 224 institutions covered in the study, by area and field of science, 1971	26
A-4 Comparison of matched doctorate departments, 1969-71, with departments reporting for 1971 only, by area and field of science	32

The Graduate Traineeship Program, inaugurated by the National Science Foundation in 1964, provides information regarding the types and sources of graduate science student support and the number of science faculty and postdoctorals. Departmental Data Sheets, which supported applications for traineeships by doctorate-granting institutions, have remained substantially unchanged from 1967 to 1971. Thus, the statistics compiled from these applications represent a consistent source of data. The data reported for 1971 from 2,990 doctorate science departments were machine-matched with data from the same departments submitting information for 1969 and 1970. This process selected 2,579 departments which reported consistently for 3 years, but excluded newly organized doctorate departments and others not applying for traineeships in the earlier years.

The data available from the Graduate Traineeship Program has been the subject of analysis in four previous reports; the present publication constitutes the fifth in the series.¹ Because of the discontinuance of the Program, the Division of Science Resources Studies has developed an expanded survey of both master's and doctorate departments in doctorate-granting institutions for fall 1972 in order to continue to make available similar information during a critical period in the advancement of graduate science education. Initial findings of this fall 1972 survey will be published in a *Science Resources Studies Highlights* in the summer of 1973.

¹ National Science Foundation, *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1965 and Fall 1966* (NSF 68-13); *Support of Full-Time Graduate Students in the Sciences, Fall 1967* (NSF 69-34); *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1969* (NSF 70-40); and *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1970* (NSF 71-27) (Washington, D. C. 20402: Supt. of Documents, U.S. Government Printing Office).

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Since 1966, the number of institutions applying for traineeships has increased 10 percent and the number of doctorate departments, 23 percent, as shown below:

Year	Number of institutions	Number of departments		
		Total	Master's	Doctorate
1966. . .	204	2,866	441	2,425
1967. . .	209	3,016	436	2,580
1968. . .	219	3,190	454	2,736
1969. . .	224	3,354	460	2,894
1970. . .	227	3,544	473	3,071
1971. . .	224	3,397	407	2,990

Announcement of the phasing out of the Program resulted in fewer applications in the last year.

Definitions²

Highest degree offered (Item 4). Institutions in which at least one department offered science doctorates were eligible for NSF traineeships. In such institutions, departments offering master's as their highest degree were also eligible. Analysis in this report, however, has been limited to science doctorate departments.

Degrees granted (Item 5). Departments were asked to report the degrees granted during the period July 1, 1970 through June 30, 1971, by level, i.e., bachelor's, master's, master's in teaching, and doctoral degrees. When two or more departments conferred joint degrees, they were to be reported by one department only. Degree output is compared with data from the Office of Education in appendix table A-1 and appears also in the Consolidated Departmental Data Sheets appearing in Appendix D.

¹National Science Foundation, *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1965 and Fall 1966* (NSF 68-13); *Support of Full-Time Graduate Students in the Sciences, Fall 1967* (NSF 69-34); *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1969* (NSF 70-40); and *Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1970* (NSF 71-27) (Washington, D. C. 20402: Supt. of Documents, U.S. Government Printing Office).

²See appendix D for the instructions used to complete the Departmental Data Sheet (NSF Form 345).

Enrollment status. The definition of a full-time student as used in the traineeship program differs from that used in the Office of Education in its Higher Education General Information Survey.³ A full-time student as referred to in this report is engaged entirely in training activities in his field of science, including any combination of study, teaching, and research. Any other student enrolled for degree credit is considered part time. The OE definition, in contrast, specifies that a full-time student is one whose academic load is at least 75 percent of the normal load expected of such students, and a part-time student is one who carries less than three-fourths of a normal load. Any attempt to compare data collected through the two sources should be done with these differences in mind.

Level of study. A first-year graduate student is one who, in the fall of the year of application, is entering graduate school for the first time or has completed less than a normal year of graduate study. All graduate students who had completed the first year of study or more were classified as beyond-first-year or advanced graduate students.

Citizenship. Citizens of the United States or native residents of a possession of the United States were considered U.S. citizens. All others, including those who have applied for U.S. citizenship, were considered foreign.

Types of major support (Item 6). Four types of major support were indicated, without definitions, as follows: Fellowships and traineeships, teaching assistantships, research assistantships, and all other mechanisms of support. The Federal Interagency Committee on Education (FICE) differentiates between the two *fellowship and traineeship* stipends as follows: (1) A fellowship is an "award made directly to or on behalf of a student selected in a national com-

petition, to enable him to pursue postbaccalaureate training," and (2) a traineeship is "an educational award to a student selected by his university." Except for the student selection process, the terms and conditions of the two types of awards are generally identical, according to the Student Support Study Group.⁴ Both fellowships and traineeships allow the graduate student a wide degree of freedom while pursuing his training without requiring any specific services to the institution in exchange.

A *graduate research assistant* is usually required to perform specific duties under the direction or supervision of a faculty member or other departmental professional staff member. These appointments are usually associated with research grants or contracts administered by faculty or other principal investigators from earmarked funds. This type of program may impose a considerable workload on the student. However, participation in such projects often affords the graduate student the opportunity to apply the research to his dissertation requirements, thus expediting the completion of his academic work.

Of the several mechanisms available for supporting graduate students, the *teaching assistantship* is often the most demanding in terms of time and effort required. Teaching assistantships tend to be viewed as less desirable than other traditional forms of financial support in that they often entail rigorous and time-consuming duty assignments which sometimes lengthen the time required for completion of graduate work. On the other hand, such work experience is valuable to students preparing for careers in science, particularly those planning to join university faculties. Moreover, graduate teaching assistants render important services to universities.

³Department of Health, Education, and Welfare, Office of Education, *Students Enrolled for Advanced Degrees*, various years.

⁴Federal Interagency Committee on Education, Student Support Study Group, *Report on Federal Predoctoral Student Support, Part 1 - Fellowships and Traineeships* (Washington, D.C.), April 1970.

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The last category of support, known as *other mechanisms*, represents the group of students who are primarily self-supporting, or whose support cannot be described as one of the three types mentioned above. This would include support from savings, loans, families, part-time non-academic work, etc.

Sources of major support. An amount of \$1,200 was initially stipulated as major support and has been maintained in subsequent years to ensure comparability of data. For purposes of analysis of major sources of support, four sources were used: (1) U.S. Government; (2) institutional support (including State and local governments and "This" institution); (3) all other outside sources, such as private nonprofit foundations, industry, and foreign organizations; and (4) self-support, including loans and family support.

Part-time graduate students (Item 9). Four entries were provided for the students who were enrolled for advanced degrees on an other than full-time basis, i.e., first-year and beyond-first year U.S. citizens and the same entries for foreign students. A separate category (Item 8) was provided for "special" students who were not enrolled for degree credit.

Faculty (Item 10). These were staff of academic rank of instructor or above, who were significantly involved in the graduate or undergraduate academic program of the department; i.e., teaching one or more graduate courses or seminars and/or directing the research of one or more graduate students. This included faculty on sabbatical leave who were expected to return, but visiting professors were to be excluded. Full-time faculty, including the department head, were those staff of academic rank of instructor or above with a full-time appointment in that department and whose major responsibilities were in the academic programs of that department. Research professors (and research associates with academic rank) were included in the full-time faculty count and also separately counted as those who met the definition for full-time faculty but did not

⁴Federal Interagency Committee on Education, Student Support Study Group, *Report on Federal Predoctoral Student Support, Part 1 - Fellowships and Traineeships* (Washington, D.C.), April 1970.

teach any regularly scheduled courses. Part-time faculty were those who met the faculty definition but have major responsibilities or activities *outside* the department. This included deans, affiliate, or adjunct professors from other departments or outside the university, professors emeriti, experiment laboratory or extension service staff, museum staff, etc. Any one faculty member was counted as full-time in only one department.

Postdoctorals or research associates (Item 11). All individuals who devoted essentially full-time effort to research activities within that department, whose appointments were nonpermanent and who were not of academic rank were considered to be postdoctorals or research associates. Such individuals usually have an earned doctorate or the equivalent in experience and contributed to the academic program through seminars, lectures, or working with graduate students, but their postdoctoral activities were considered to have an element of additional training for them.

Statistical Coverage of Graduate Science Education

Statistics reported by the doctorate departments applying for NSF traineeships were considered to be highly representative of the general characteristics of all doctorate-granting institutions. The 2,990 doctorate science departments reporting for 1971 granted 95 percent of the doctorate science degrees awarded by all institutions of higher education, as shown in table A-1. In the physical sciences, these departments awarded 96 percent of the Ph. D. degrees; in mathematical sciences, 93 percent; and in psychology, 92 percent. In the life sciences, coverage represented only 81 percent of the total, due primarily to the award of such grants by the National Institutes of Health rather than by the National Science Foundation. In other areas where degrees awarded were higher than reported by OE, variations can be attributed to differences in reporting to the two Federal agencies and to differing definitions of scientific fields.

Examination of enrollment statistics provides another measure of the representativeness of traineeship statistics. At the time this report was prepared, data were not yet available from the Office of Education on enrollment for advanced degrees for fall 1971. Therefore, table A-2 compares OE enrollment data for 1970 with traineeship statistics for 1970 which were published in the previous report. At that time, the 227 doctorate institutions submitting traineeship applications accounted for 80 percent of the total U. S. science and engineering enrollment for advanced degrees. Doctorate departments accounted for 75 percent of the total and master's departments, 5 percent. Because of this limited representation of master's departments, the analysis in this report was confined to doctorate level departments. Coverage of graduate enrollment in doctoral departments varied from a high of 89 percent in the social sciences to a low of 52 percent in mathematical sciences. This relatively low percentage was due in part to the comparatively large enrollment in mathematics in institutions not eligible for NSF traineeships; i.e., those not granting science doctorates. Variations can also be attributed to the interpretation by institutions of the terminology and scientific disciplines used by NSF and OE, as stated earlier.

The science departments applying for traineeships employed many different titles. These departments were aggregated into the 41 fields of science utilized in all previous reports, and these fields were then grouped into six areas of science, as shown in table A-3.

As described earlier, departments reporting for 3 consecutive years were analyzed to determine the evolving patterns of support in each area of science. These 2,579 matched departments represented 86 percent of the total number of doctorate departments supplying statistics. The coverage represented by these matched departments is given in table A-4 for each of the 41 fields of science.

Table A-1 — Doctorates awarded in the sciences and engineering by the 224 institutions applying for NSF traineeships, compared with total science doctorates granted by all U. S. institutions of higher education, by area of science, academic years ended June 30, 1967-71

Area of science and academic year	U. S. total, all institutions ^a	Institutions applying for traineeships, 1971	
		Doctorates awarded	Percent of total
Total:			
1967	12,981	12,121	93.4
1968	14,420	13,364	92.7
1969	15,982	14,998	93.8
1970	17,639	17,206	97.5
1971 ^b	18,466	17,613	95.4
Engineering:			
1967	2,581	2,731	105.8
1968	2,833	3,003	106.0
1969	3,234	3,514	108.7
1970	3,681	3,681	100.0
1971	3,654	3,720	101.8
Physical sciences:			
1967	3,478	3,327	95.7
1968	3,642	3,495	96.0
1969	3,901	3,704	95.0
1970	4,313	4,170	96.7
1971	4,391	4,235	96.4
Mathematical sciences:			
1967	828	808	97.6
1968	970	949	97.8
1969	1,063	1,071	100.8
1970	1,343	1,273	94.8
1971	1,327	1,231	92.8
Life sciences:			
1967	3,116	2,442	78.4
1968	3,681	2,802	76.1
1969	4,116	3,154	76.6
1970	4,131	3,693	89.4
1971	4,746	3,821	80.5
Psychology:			
1967	1,293	1,058	81.8

1970	17,639	17,206	97.5
1971 ^b	18,466	17,613	95.4
Engineering:			
1967	2,581	2,731	105.8
1968	2,833	3,003	106.0
1969	3,234	3,514	108.7
1970	3,681	3,681	100.0
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Life sciences:			
1967	3,116	2,442	78.4
1968	3,681	2,802	76.1
1969	4,116	3,154	76.6
1970	4,131	3,693	89.4
1971	4,746	3,821	80.5
Psychology:			
1967	1,293	1,058	81.8
1968	1,452	1,186	81.7
1969	1,728	1,398	80.9
1970	1,668	1,561	93.6
1971	1,782	1,632	91.6
Social sciences:			
1967	1,685	1,755	104.2
1968	1,842	1,929	104.7
1969	1,940	2,157	111.2
1970	2,503	2,828	113.0
1971	2,566	2,974	115.9

^aBased on USOE statistics on earned degrees conferred, various years, by U. S. institutions of higher education.

^bUnpublished data provided by USOE.

Table A-2 — Graduate science enrollment in 227 doctorate institutions covered in the 1970 study, compared with 1970 enrollment for advanced degrees, by area of science and department degree level

Area of science	Enrollment for advanced degrees, fall 1970 ^a	Graduate students enrolled in 227 doctorate institutions covered in 1970 study					
		All departments		Doctorate departments		Master's departments	
		Number	Percent of total	Number	Percent of total	Number	Percent of total
Total	252,159	201,918	80.1	188,773	74.9	13,145	5.2
Engineering	64,788	54,805	84.6	51,107	78.9	3,698	5.7
Physical sciences	40,113	34,856	86.9	33,648	83.9	1,208	3.0
Mathematical sciences	30,608	18,028	58.9	16,041	52.4	1,987	6.5
Life sciences	46,260	34,755	75.1	33,486	72.4	1,269	2.7
Psychology	25,342	15,256	60.2	14,473	57.1	783	3.1
Social sciences	45,048	44,218	98.2	40,018	88.8	4,200	9.3

^aBased on U. S. Office of Education, *Students Enrolled for Advanced Degrees, Fall 1970, Summary Data* (OE-72-64) (Washington, D. C. 20402: Supt. of Documents, U. S. Government Printing Office). Data for 1971 were not available at time of this report.

Table A-3. — Number of doctorate departments in the 224 institutions covered in the study, by area and field of science, 1971

Area, field of science, and departmental title	Doctorate departments	Area, field of science, and departmental title
Total	2,990	Electrical, total
Engineering	664	Electrical and instrumental
Aeronautical, total	33	Electrical computer science
Aeronautical and astronautical engineering	3	Electrical engineering
Aeronautical engineering	1	Engineering science, total
Aeronautics	1	Applied mechanics
Aeronautics and astronautics	6	Applied science
Aerospace engineering	18	Engineering acoustics
Aerospace engineering and engineering physics	2	Engineering mechanics
Astronautics	1	Engineering science
Space science	1	Engineering and applied physics
Agricultural, total	24	Mechanical science
Agricultural and irrigation engineering	1	Mechanics
Agricultural engineering	21	Mechanics and hydraulics
Wood technology	1	Theoretical and applied mechanics
Wood products engineering	1	Industrial, total
Chemical, total	92	Administrative science
Chemical engineering	83	Applied analysis
Chemical engineering and materials science	2	Communications
Chemical and metallurgical engineering	4	Industrial communication engineering
Chemical and nuclear engineering	2	Industrial engineering
Textiles	1	Industrial engineering and management
Civil, total	88	Industrial engineering and operations research
Civil engineering	71	Management
Civil engineering hydraulics	1	Management engineering
Civil engineering and engineering mechanics	3	Management science
Civil and environmental engineering	5	Operations research
Civil and geological engineering	2	Organization behavior
Environmental engineering	4	Systems engineering
Environmental sciences and engineering	2	Mechanical, total
		Aerospace and mechanical engineering
		Marine engineering and naval architecture
		Mechanical engineering
		Mechanical engineering and applied mechanics
		Mechanical and aeronautical engineering

Departments in the 224
and field of science, 1971

Departmental title	Doctorate departments	Area, field of science, and departmental title	Doctorate departments
		Electrical, total	108
	2,990	Electrical and instrumental	1
		Electrical computer science	2
	664	Electrical engineering	105
	33	Engineering science, total	40
	3	Applied mechanics	4
	1	Applied science	1
	1	Engineering acoustics	1
	6	Engineering mechanics	15
	18	Engineering science	8
Physics	2	Engineering and applied physics	1
	1	Mechanical science	1
	1	Mechanics	5
		Mechanics and hydraulics	1
	24	Theoretical and applied mechanics	3
	1	Industrial, total	53
	21		
	1	Administrative science	1
	1	Applied analysis	1
		Communications	3
	92	Industrial communication engineering	1
		Industrial engineering	22
	83	Industrial engineering and management science	3
	2	Industrial engineering and operations research	6
	4	Management	1
	2	Management engineering	1
	1	Management science	2
		Operations research	5
	88	Organization behavior	1
		Systems engineering	6
	71	Mechanical, total	102
	1		
	3	Aerospace and mechanical engineering	18
	5	Marine engineering and naval architecture	1
	2	Mechanical engineering	74
	4	Mechanical engineering and applied mechanics	1
	2	Mechanical and aeronautical engineering and material science	4

Table A-3. — Continued

Area, field of science, and departmental title	Doctorate departments	Area, field of science, and departmental title
Mechanical — Cont.		Engineering
Mechanical and industrial engineering	1	Engineering mathematics
Naval architecture	2	Engineering physics and physics
Transportation	1	Polymer science and engineering
		Thermal engineering
Metallurgical, total	49	Physical sciences
Ceramic engineering	4	Astronomy, total
Ceramics	1	Atmospheric sciences, total
Material science	7	Aeronautics and planet atmospheres
Materials engineering	10	Astrogeophysics
Metallurgical engineering	8	Astrophysics
Metallurgical and materials engineering	12	Atmospheric sciences
Metallurgy	6	Atmospheric and space sciences
Solid state science and technology	1	Meteorology
Mining, total	9	Meteorology and oceanography
Geological engineering	1	Chemistry, total
Mineral engineering	1	Chemistry
Mining	2	Crystallography
Mining engineering	4	Paper technology
Mining and metallurgy	1	Polymer science
Nuclear, total	26	Geosciences, total
Nuclear engineering	22	Earth and planetary science
Nuclear science and engineering	4	Earth sciences
Petroleum, total	6	Environmental sciences
Petroleum engineering	2	Geodetic science
Petroleum and chemical engineering	4	Geological science
Other engineering, total	34	Geology
Applied physics	4	Geology and geography
Bioengineering	1	Geology and geological engineering
Biomedical engineering	9	Geology and geophysics
Biomedical engineering and mathematics	1	Geophysical engineering
Economics of engineering	1	Geophysics
Energy engineering	1	Geophysics and planetary physics
		Geosciences
		Hydrology

Science, and departmental title	Doctorate departments	Area, field of science, and departmental title	Doctorate departments
Industrial engineering	1	Engineering	12
.	2	Engineering mathematics	2
.	1	Engineering physics and physics	1
.		Polymer science and engineering	1
.		Thermal engineering	1
.	49	Physical sciences	524
.	4	Astronomy, total	23
.	1	Atmospheric sciences, total	21
.	7	Aeronautics and planet atmospheres	1
.	10	Astrogeophysics	1
.	8	Astrophysics	1
.	12	Atmospheric sciences	6
.	6	Atmospheric and space sciences	1
.	1	Meteorology	9
.	9	Meteorology and oceanography	2
.	1	Chemistry, total	183
.	1	Chemistry	180
.	2	Crystallography	1
.	4	Paper technology	1
.	1	Polymer science	1
.	26	Geosciences, total	107
.	22	Earth and planetary science	4
.	4	Earth sciences	5
.	6	Environmental sciences	2
.	2	Geodetic science	1
.	4	Geological science	16
.	34	Geology	49
.	4	Geology and geography	2
.	1	Geology and geological engineering	4
.	9	Geology and geophysics	7
.	1	Geophysical engineering	1
.	1	Geophysics	5
.	1	Geophysics and planetary physics	1
.	1	Geosciences	6
.	1	Hydrology	1

Table A.3. — Continued

Area, field of science, and departmental title	Doctorate departments	Area, field of science, and departmental title
Geosciences — Cont.		Statistics, total
Mineralogy	1	Applied statistics
Paleontology	1	Biostatistics
Petroleum geology	1	Mathematical statistics
Oceanography, total	20	Statistics
Marine biology	1	Statistics and computer science
Marine science	4	Life sciences
Ocean engineering	3	Agricultural, total
Oceanography	11	Agricultural chemistry
Water chemistry	1	Agronomy
Physics, total	170	Agronomy and genetics
Astronomy and space science	1	Animal diseases
Chemical physics	4	Animal husbandry
Electrophysics	2	Animal industry
Mathematical physics	1	Animal nutrition
Molecular physics	1	Animal science
Optical science	1	Crop and soil science
Optics	1	Dairy science
Physics	141	Entomology
Physics and astronomy	16	Entomology and parasitology
Physics and astrophysics	1	Farm crops
Plasma physics	1	Floriculture
Mathematical sciences	214	Food science
Applied mathematics, total	35	Food science and technology
Applied mathematics	6	Food technology
Applied mathematics and computer science	2	Food and nutrition
Computer science	27	Forest chemistry
Mathematics, total	139	Forest economics
Mathematical science	1	Forest entomology
Mathematics	131	Forest management
Mathematics and astronomy	1	Forest resources
Mathematics and statistics	6	Forestry
		Forestry and horticulture
		Horticulture
		Nutrition
		Parasitology
		Plant science

Departmental title	Doctorate departments	Area, field of science, and departmental title	Doctorate departments
		Statistics, total	40
	1	Applied statistics	1
	1	Biostatistics	3
	1	Mathematical statistics	1
	20	Statistics	34
		Statistics and computer science	1
	1	Life sciences	924
	4		
	3	Agricultural, total	202
	11		
	1	Agricultural chemistry	3
	170	Agronomy	20
		Agronomy and genetics	1
	1	Animal diseases	1
	4	Animal husbandry	2
	2	Animal industry	1
	1	Animal nutrition	1
	1	Animal science	24
	1	Crop and soil science	1
	1	Dairy science	3
	1	Entomology	26
	141	Entomology and parasitology	2
	16	Farm crops	1
	1	Floriculture	1
	1	Food science	7
	214	Food science and technology	7
		Food technology	1
	35	Food and nutrition	6
		Forest chemistry	1
	6	Forest economics	1
Science	2	Forest entomology	1
	27	Forest management	2
		Forest resources	6
	139	Forestry	13
		Forestry and horticulture	1
	1	Horticulture	14
	131	Nutrition	10
	1	Parasitology	2
	6	Plant science	8

Table A.3. — Continued

Area, field of science, and department title	Doctorate departments	Area, field of science, and department title
Agricultural — Cont.		Biology
Plant and soil science	4	Biomedical science
Poultry	1	Cellular biology
Poultry science	7	Development biology
Range science	3	Evolutionary biology
Recreation and parks	1	Experimental biology
Resource development	1	Molecular biology
Silviculture	1	Population and environment
Soil science	4	Botany, total
Soil and water science	1	Botanical science
Soils	3	Botany
Soils and meteorology	1	Botany and microbiology
Vegetable crops	2	Botany and plant pathology
Water resources administration	1	Plant pathology
Watershed management	2	Plant physiology
Wildlife	2	Microbiology, total
Wildlife management	1	Bacteriology
Biochemistry, total	121	Cell physiology
Agricultural biochemistry	2	Medical microbiology
Agricultural biochemistry and nutrition	1	Microbiology
Biochemical science	1	Virology
Biochemistry	74	Pharmacology, total
Biochemistry and biophysics	6	Biochemical pharmacology
Biochemistry and nutrition	3	Biopharmaceutical sciences
Biological chemistry	7	Chemistry and pharmaceuticals
Biophysical science	2	Medicinal chemistry
Biophysics	14	Pharmaceutical chemistry
Biophysics and microbiology	2	Pharmaceutics
Comparative biochemistry	1	Pharmacognosy
Medical physics	1	Pharmacology
Molecular biophysics and biochemistry	1	Pharmacology and toxicology
Radiation biology	3	Pharmacy
Radiation biology and biophysics	1	Physiology, total
Radiation biophysics	1	Animal physiology
Radiology science	1	Medical physiology
Biology, total	127	
Biological science	22	
Biological structure	2	

department title	Doctorate departments	Area, field of science, and department title	Doctorate departments
		Biology	83
		Biomedical science	3
	4	Cellular biology	5
	1	Development biology	1
	7	Evolutionary biology	1
	3	Experimental biology	1
	1	Molecular biology	8
	1	Population and environmental biology	1
	1		
	4	Botany, total	71
	1		
	3	Botanical science	1
	1	Botany	38
	2	Botany and microbiology	4
on	1	Botany and plant pathology	7
	2	Plant pathology	17
	2	Plant physiology	4
	1		
	121	Microbiology, total	89
		Bacteriology	7
	2	Cell physiology	1
nd nutrition	1	Medical microbiology	7
	1	Microbiology	73
	74	Virology	1
	6		
	3	Pharmacology, total	80
	7		
	2	Biochemical pharmacology	1
	14	Biopharmaceutical sciences	1
	2	Chemistry and pharmaceutical chemistry	1
	1	Medicinal chemistry	5
	1	Pharmaceutical chemistry	6
ochemistry	1	Pharmaceutics	4
	3	Pharmacognosy	1
ysics	1	Pharmacology	45
	1	Pharmacology and toxicology	3
	1	Pharmacy	13
	127	Physiology, total	62
		Animal physiology	2
	22	Medical physiology	1
	2		

Table A-3. — Continued

Area, field of science, and department title	Doctorate departments	Area, field of science, and department title
Physiology — Cont.		Psychobiology
Physiological chemistry	1	Public Health
Physiological optics	2	Science
Physiological science	1	Science education
Physiology	37	Toxicology
Physiology and anatomy	2	Tropical medicine
Physiology and biophysics	12	Veterinary medicine
Physiology and pharmacology	4	Veterinary science
Zoology, total	58	Psychology
Economic zoology	1	Psychology, total
Fish and wildlife	3	Child development
Fisheries	2	Child studies
Forest zoology	1	Educational psychology
Zoology	44	Experimental psychology
Zoology and entomology	4	Experimental social psychology
Zoology and physiology	3	Human development
Other life sciences, total	114	Psychiatry and neurology
Anatomy	39	Psychology
Animal genetics	1	Psychology and education
Audiology	2	Social psychology
Bacteriology and public health	1	Social sciences
Biobehavioral science	1	Agricultural economics, total
Biometrics	2	Agricultural economics
Ecology	7	Agricultural economics and ecology
Endocrinology	1	Agricultural economics and sociology
Environmental health	2	Anthropology, total
General science	2	Economics, total
Genetics	19	Economics
Health and physical education	2	Economics and business administration
Immunology	3	Industrial relations
Medical sciences	1	Mineral economics
Medicine	1	Political economy
Natural resources	2	
Neurobiology	2	
Neurosciences	2	
Pathology	14	
Planetary and space science	1	

Area, field of science, and department title	Doctorate departments	Area, field of science, and department title	Doctorate departments
		Psychobiology	1
		Public Health	2
		Science	1
		Science education	1
		Toxicology	1
		Tropical medicine	1
		Veterinary medicine	1
		Veterinary science	1
		Psychology	147
	58	Psychology, total	147
	1	Child development	2
	3	Child studies	1
	2	Educational psychology	1
	1	Experimental psychology	1
	44	Experimental social psychology	1
	4	Human development	3
	3	Psychiatry and neurology	1
	114	Psychology	135
		Psychology and education	1
	39	Social psychology	1
	1		
	2	Social sciences	517
	1		
	1	Agricultural economics, total	17
	2		
	7	Agricultural economics	13
	1	Agricultural economics and economics	1
	2	Agricultural economics and sociology	3
	2		
	19	Anthropology, total	60
	2		
	3	Economics, total	109
	1		
	1	Economics	101
	2	Economics and business administration	3
	2	Industrial relations	2
	2	Mineral economics	1
	14	Political economy	2
	1		

Table A-3. — Continued

Area, field of science, and department title	Doctorate departments	Area, field of science, and department title
Geography, total	42	Sociology, total
Geography	41	City planning
Geography and anthropology	1	Criminology
History and philosophy of science, total	33	Demography
History	1	Development sociology
History and philosophy of science	6	Family life
History of science	8	Folklore
History of science and medicine	1	International service
Logic and methodology of science	1	Labor and industrial relations
Philosophy	13	Leadership and human behavior
Philosophy of science	3	Regional plan
Linguistics, total	58	Regional science
Communication	3	Rural sociology
Information science	5	Social relations
Interpersonal communication	1	Social sciences
Journalism	1	Sociology
Linguistics	34	Urban planning
Mass communications	1	Sociology and anthropology, total
Psycholinguistics	2	
Sensory communication	1	
Speech	7	
Speech and pathology	3	
Political science, total	92	
Government	11	
Government and foreign affairs	1	
International relations	2	
International studies	2	
Political science	70	
Politics	4	
Public administration	1	
Public affairs	1	

Department title	Doctorate departments	Area, field of science, and department title	Doctorate departments
.....	42	Sociology, total	93
.....	41	City planning	1
.....	1	Criminology	2
.....	33	Demography	1
.....	1	Development sociology	1
.....	6	Family life	1
.....	8	Folklore	1
.....	1	International service	1
.....	1	Labor and industrial relations	1
.....	13	Leadership and human behavior	1
.....	3	Regional plan	1
.....	58	Regional science	1
.....	3	Rural sociology	1
.....	3	Social relations	1
.....	58	Social sciences	1
.....	3	Sociology	74
.....	5	Urban planning	4
.....	1	Sociology and anthropology, total	13
.....	1		
.....	34		
.....	1		
.....	2		
.....	1		
.....	7		
.....	3		
.....	92		
.....	11		
.....	1		
.....	2		
.....	2		
.....	70		
.....	4		
.....	1		
.....	1		

Table A-4. — Comparison of matched doctorate departments,
1969-71, with departments reporting for 1971, by area and
field of science

Area of field of science	Departments reporting for 1971	Departments reporting for 3 years, 1969-71	Percent of total
Total	2,990	2,579	86.3
Engineering	664	596	89.8
Aeronautical	33	26	78.8
Agricultural	24	22	91.7
Chemical	92	89	96.7
Civil	88	78	88.6
Electrical	108	105	97.2
Engineering science	40	37	92.5
Industrial	53	47	88.7
Mechanical	102	88	86.3
Metallurgical	49	44	89.8
Mining	9	3	33.3
Nuclear	26	25	96.2
Petroleum	6	6	100.0
Other engineering	34	26	76.5
Physical sciences	524	487	92.9
Astronomy	23	22	95.7
Atmospheric sciences	21	17	81.0
Chemistry	183	178	97.3
Geosciences	107	91	85.0
Oceanography	20	19	95.0
Physics	170	160	94.1
Mathematical sciences	214	189	88.3
Applied mathematics	35	26	74.3
Mathematics	139	131	94.2
Statistics	40	32	80.0
Life sciences	924	735	79.5
Agricultural	202	164	81.2
Biochemistry	121	95	78.5
Biology	127	106	83.5
Botany	71	63	88.7
Microbiology	89	71	79.8
Pharmacology	80	57	71.3
Physiology	62	51	82.3
Zoology	58	52	89.7
Other life sciences	114	76	66.7

Mechanical	102	88	86.3
Metallurgical	49	44	89.8
Mining	9	3	33.3
Nuclear	26	25	96.2
Petroleum	6	6	100.0
Other engineering	34	26	76.5
Physical sciences	524	487	92.9
Astronomy	23	22	95.7
Atmospheric sciences	21	17	81.0
Chemistry	183	178	97.3
Geosciences	107	91	85.0
Oceanography	20	19	95.0
Physics	170	160	94.1
Mathematical sciences	214	189	88.3
Applied mathematics	35	26	74.3
Mathematics	139	131	94.2
Statistics	40	32	80.0
Life sciences	924	735	79.5
Agricultural	202	164	81.2
Biochemistry	121	95	78.5
Biology	127	106	83.5
Botany	71	63	88.7
Microbiology	89	71	79.8
Pharmacology	80	57	71.3
Physiology	62	51	82.3
Zoology	58	52	89.7
Other life sciences	114	76	66.7
Psychology	147	128	87.1
Social sciences	517	444	85.9
Agricultural economics	17	15	88.2
Anthropology	60	53	88.3
Economics	109	99	90.8
Geography	42	40	95.2
History and philosophy of science	33	28	84.8
Linguistics	58	48	82.8
Political science	92	85	92.4
Sociology	93	70	75.3
Sociology & anthropology	13	6	46.2

APPENDIX B

Classification of Institutions Participating in Graduate Traineeship Program¹

¹The 224 science doctorate institutions listed here may differ from similar listings published elsewhere for the following principal reasons: (1) Differences in classifying branches, affiliates, or other organizational components of University systems; (2) variations in definitions of science and engineering fields; (3) differences in the time period covered by the classification (e.g. single year or longer period); and (4) differences in classifications based on level of degree offered or level of degree granted respectively, in a particular period. Symbols behind each name refer to the following classifications: 1) "First 20" refer to institutions chosen most frequently by NSF Fellows from 1968 through 1971; 2) D—"Developing" institutions, those which granted science Ph.D.'s after 1960-61; 3) M—"Medical Schools"; 4) I—"Intermediate", all remaining applicants for traineeships.

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APPENDIX B

Institutions Participating in Graduate Traineeship Program¹

The institutions participating in the Graduate Traineeship Program have been classified as follows:

- (1) **"First 20."** These institutions were selected by the most number of NSF Fellows during the period 1968-71. The NSF Graduate Fellowship Program awards its stipends to individuals who then select which graduate institutions they wish to attend. On the basis of this selection process, the number of Fellows in each year was totaled and the institutions were then placed in rank order. These same 20 institutions have been selected by the most number of NSF Fellows for each year since 1969.
- (2) **Developing.** The 65 institutions that began awarding science Ph.D.'s in academic year 1960-61 were considered to be developing graduate institutions for this report. Data for this comparison were provided by the Office of Education.
- (3) **Medical.** Only 12 medical schools, representing 129 students in 1971, applied for NSF traineeships, and thus the medical school category was not considered sufficiently representative for this analysis. The new survey of fall 1972 graduate student support will include approximately 70 medical schools that submitted data separately from a parent institution, and these data will be analyzed more extensively in a study of their first-year enrollment.
- (4) **Intermediate.** All the remaining schools that supplied data for 1971 were termed "Intermediate."

¹may differ from similar listings published in classifying branches, affiliates, or other institutions in definitions of science and engineering classification (e.g. single year or longer of degree offered or level of degree granted) may refer to the following classifications: 1) S—Science Ph.D.'s after 1960-61; 2) E—Engineering Ph.D.'s after 1960-61; 3) M—"Medical" traineeships.

ALABAMA

Auburn University—I
University of Alabama—I

ALASKA

University of Alaska—I

ARIZONA

Arizona State University—D
University of Arizona—I

ARKANSAS

University of Arkansas—I

CALIFORNIA

California Institute of Technology—First 20
Claremont Graduate School and University Center—I
Loma Linda University—D
Stanford University—First 20
University of California, Berkeley—First 20
University of California, Davis—I
University of California, Irvine—D
University of California, Los Angeles—First 20
University of California, Riverside—D
University of California, San Diego—First 20
University of California, San Francisco—I
University of California, Santa Barbara—D
University of California, Santa Cruz—D
University of the Pacific—D
University of Santa Clara—D
University of Southern California—I
U.S. International University—D

COLORADO

Colorado School of Mines—I
Colorado State University—I
University of Colorado—I
University of Denver—I

CONNECTICUT

University of Connecticut—I
Wesleyan University—D
Yale University—First 20

DELAWARE

University of Delaware—I

DISTRICT OF COLUMBIA

American University—I
Catholic University—I
George Washington University—I
Georgetown University—I
Howard University—I

FLORIDA

Florida State University—I
Nova University—D
University of Florida—I
University of Miami—I
University of South Florida—D

GEORGIA

Atlanta University—D
Emory University—I
Georgia Institute of Technology—I
Georgia State University—D
Medical College of Georgia—M
University of Georgia—I

HAWAII

University of Hawaii—I

IDAHO

University of Idaho—D

ILLINOIS

DePaul University—D
Illinois Institute of Technology—I
Illinois State University—D
Loyola University—I
Northern Illinois University—D
Northwestern University—I
Southern Illinois University—I
University of Chicago—First 20
University of Illinois, Chicago Circle—D
University of Illinois, Urbana—First 20
University of Illinois Medical Center—M

INDIANA

Indiana University—I
Purdue University—I
University of Notre Dame—I

IOWA

Iowa State University—I
University of Iowa—I

Kansas State U
University of K

University of K
University of L

Louisiana Tech
Louisiana State
Louisiana State
Louisiana State
New Orleans

Loyola Univers
Tulane Univers

University of M

Johns Hopkins
University of M

Boston College
Boston Univers

Brandeis Unive
Clark Universit

Harvard Univer
Lowell Techno

Massachusetts
Northeastern U

Tufts Universit
University of M

Worcester Poly

Michigan State
Michigan Techn

University of D
University of M

Wayne State U
Western Michig

University of M

(See footnote on page 33 for explanation of symbols.)

DISTRICT OF COLUMBIA

American University—I
Catholic University—I
George Washington University—I
Georgetown University—I
Howard University—I

FLORIDA

Florida State University—I
Nova University—D
University of Florida—I
University of Miami—I
University of South Florida—D

GEORGIA

Atlanta University—D
Emory University—I
Georgia Institute of Technology—I
Georgia State University—D
Medical College of Georgia—M
University of Georgia—I

HAWAII

University of Hawaii—I

IDAHO

University of Idaho—D

ILLINOIS

DePaul University—D
Illinois Institute of Technology—I
Illinois State University—D
Loyola University—I
Northern Illinois University—D
Northwestern University—I
Southern Illinois University—I
University of Chicago—First 20
University of Illinois, Chicago Circle—D
University of Illinois, Urbana—First 20
University of Illinois Medical Center—M

INDIANA

Indiana University—I
Purdue University—I
University of Notre Dame—I

IOWA

Iowa State University—I
University of Iowa—I

KANSAS

Kansas State University—I
University of Kansas—I

KENTUCKY

University of Kentucky—I
University of Louisville—I

LOUISIANA

Louisiana Technological University—D
Louisiana State University, Baton Rouge—I
Louisiana State University, New Orleans—D
Louisiana State University Medical Center,
New Orleans—M
Loyola University—D
Tulane University—I

MAINE

University of Maine—I

MARYLAND

Johns Hopkins University—First 20
University of Maryland—I

MASSACHUSETTS

Boston College—I
Boston University—I
Brandeis University—I
Clark University—I
Harvard University—First 20
Lowell Technological Institute—D
Massachusetts Institute of Technology—First 20
Northeastern University—D
Tufts University—I
University of Massachusetts—I
Worcester Polytechnic Institute—D

MICHIGAN

Michigan State University—I
Michigan Technological University—D
University of Detroit—D
University of Michigan—First 20
Wayne State University—I
Western Michigan University—D

MINNESOTA

University of Minnesota—I

MISSISSIPPI

Mississippi State University—I
University of Mississippi—I
University of Southern Mississippi—D

MISSOURI

St. Louis University—I
University of Missouri, Columbia—I
University of Missouri, Kansas City—D
University of Missouri, Rolla—I
Washington University—I

MONTANA

Montana State University—I
University of Montana—D

NEBRASKA

University of Nebraska—I

NEVADA

University of Nevada—D

NEW HAMPSHIRE

Dartmouth College—D
University of New Hampshire—I

NEW JERSEY

Newark College of Engineering—D
Princeton University—First 20
Rutgers, The State University—I
Seton Hall University—D
Stevens Institute of Technology—I

NEW MEXICO

New Mexico Institute of Mining and Technology—D
New Mexico State University—I
University of New Mexico—I

NEW YORK

Adelphi University—I
Alfred University—I
City University of New York—D
Clarkson College of Technology—D
Columbia University—First 20
Cooper Union—D

Cornell University—First 20

Fordham University—I

New School of Social Research—I

New York Medical College—M

New York University—I

Polytechnic Institute of Brooklyn—I

Rensselaer Polytechnic Institute—I

Rockefeller University—First 20

St. Bonaventure University—I

St. Johns University—I

State University of New York at Albany—D

State University of New York at Binghamton—D

State University of New York at Buffalo—D

State University of New York, College of Forestry at
Syracuse—I

State University of New York Downstate Medical
Center—M

State University of New York, Stony Brook—D

State University of New York, Upstate Medical
Center—M

Syracuse University—I

Union College and University—I

University of Rochester—I

Yeshiva University—I

NORTH CAROLINA

Duke University—I

University of North Carolina, Chapel Hill—I

University of North Carolina, North Carolina State
University, Raleigh—I

Wake Forest University—D

NORTH DAKOTA

North Dakota State University—D

University of North Dakota—I

OHIO

Bowling Green State University—D

Case—Western Reserve University—I

Kent State University—D

Miami University—D

Ohio State University—I

Ohio University—I

University of Akron—I

University of Cincinnati—I

University of Dayton—D

University of Toledo—D

Oklahoma State University—I
University of Oklahoma—I

Oregon Graduate State University—I
Oregon State University—I
Portland State University—I
University of Oregon—I
University of Portland—I

Bryn Mawr College—I
Carnegie-Mellon University—I
Drexel University—I
Duquesne University—I
Hahnemann Medical College—I
Lehigh University—I
The Medical College of Pennsylvania—I
Philadelphia College of Podiatric Medicine—I
Temple University—I
Thomas Jefferson University—I
University of Pennsylvania—I
University of Pittsburgh—I
Villanova University—I

Brown University—I
Providence College—I
University of Rhode Island—I

Clemson University—I
Medical University of South Carolina—I

South Dakota School of Mines—I
South Dakota State University—I
University of South Dakota—I

George Peabody College—I
Memphis State University—I
University of Tennessee—I
University of Tennessee at Knoxville—I
Vanderbilt University—I

(See footnote on page 33 for explanation of symbols.)

Cornell University—First 20
 Fordham University—I
 New School of Social Research—I
 New York Medical College—M
 New York University—I
 Polytechnic Institute of Brooklyn—I
 Rensselaer Polytechnic Institute—I
 Rockefeller University—First 20
 St. Bonaventure University—I
 St. Johns University—I
 State University of New York at Albany—D
 State University of New York at Binghamton—D
 State University of New York at Buffalo—D
 State University of New York, College of Forestry at
 Syracuse—I
 State University of New York Downstate Medical
 Center—M
 State University of New York, Stony Brook—D
 State University of New York, Upstate Medical
 Center—M
 Syracuse University—I
 Union College and University—I
 University of Rochester—I
 Yeshiva University—I

NORTH CAROLINA

Duke University—I
 University of North Carolina, Chapel Hill—I
 University of North Carolina, North Carolina State
 University, Raleigh—I
 Wake Forest University—D

NORTH DAKOTA

North Dakota State University—D
 University of North Dakota—I

OHIO

Bowling Green State University—D
 Case—Western Reserve University—I
 Kent State University—D
 Miami University—D
 Ohio State University—I
 Ohio University—I
 University of Akron—I
 University of Cincinnati—I
 University of Dayton—D
 University of Toledo—D

OKLAHOMA

Oklahoma State University—I
 University of Oklahoma—I

OREGON

Oregon Graduate Center—D
 Oregon State University—I
 Portland State University—D
 University of Oregon—I
 University of Portland—I

PENNSYLVANIA

Bryn Mawr College—I
 Carnegie-Mellon University—I
 Drexel University—D
 Duquesne University—I
 Hahnemann Medical College and Hospital—M
 Lehigh University—I
 The Medical College of Pennsylvania—M
 Pennsylvania State University—I
 Philadelphia College of Pharmacy and Science—I
 Temple University—I
 Thomas Jefferson University—M
 University of Pennsylvania—First 20
 University of Pittsburgh—I
 Villanova University—D

RHODE ISLAND

Brown University—I
 Providence College—D
 University of Rhode Island—I

SOUTH CAROLINA

Clemson University—D
 Medical University of South Carolina—M
 University of South Carolina—I

SOUTH DAKOTA

South Dakota School of Mines and Technology—D
 South Dakota State University—I
 University of South Dakota—I

TENNESSEE

George Peabody College—I
 Memphis State University—D
 University of Tennessee, Knoxville—I
 University of Tennessee, Memphis—I
 Vanderbilt University—I

TEXAS

Baylor University—I
Baylor College of Medicine, Houston—M
North Texas State University—D
Rice University—First 20
Southern Methodist University—D
Texas A&M University—I
Texas Christian University—D
Texas Tech University—I
Texas Woman's University—D
University of Houston—I
University of Texas, Arlington—D
University of Texas, Austin—I

UTAH

Brigham Young University—I
University of Utah—I
Utah State University—I

VERMONT

University of Vermont—D

VIRGINIA

College of William and Mary—D
University of Virginia—I
Virginia Commonwealth University—M
Virginia Polytechnic Institute—I

WASHINGTON

University of Washington—First 20
Washington State University—I

WEST VIRGINIA

West Virginia University—I

WISCONSIN

Institute of Paper Chemistry (Lawrence
University)—I
Marquette University—I
University of Wisconsin, Madison—First 20
University of Wisconsin, Milwaukee—I

WYOMING

University of Wyoming—I

(See footnote on page 33 for explanation of symbols.)

APPENDIX C

Statistical Tables

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TABLE C-1. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE AND ENROLLMENT STATUS, 1971

AREA AND FIELD OF SCIENCE	TOTAL		FULL TIME		PART TIME	
	NUMBER	PERCENT DISTRI- BUTION	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE.....	182,001	100.0	142,169	78.1	39,832	21.9
ENGINEERING.....	48,410	26.6	30,902	63.8	17,508	36.2
AERONAUTICAL.....	1,742	1.0	1,355	77.8	387	22.2
AGRICULTURAL.....	518	.3	427	82.4	91	17.6
CHEMICAL.....	4,441	2.4	3,183	71.7	1,258	28.3
CIVIL.....	7,636	4.2	5,144	67.4	2,492	32.6
ELECTRICAL.....	13,822	7.6	7,380	53.4	6,442	46.6
ENGINEERING SCIENCE.....	1,432	.8	1,201	83.9	231	16.1
INDUSTRIAL.....	4,809	2.6	2,754	57.3	2,055	42.7
MECHANICAL.....	7,239	4.0	4,291	59.3	2,948	40.7
METALLURGICAL AND MATERIALS.....	2,205	1.2	1,717	77.9	488	22.1
MINING.....	1,305	.7	1,076	82.5	229	17.5
NUCLEAR.....	1,161	.6	898	77.3	263	22.7
PETROLEUM.....	2,218	.1	157	7.2	2,061	92.8
OTHER ENGINEERING.....	2,862	1.6	2,119	73.5	743	26.5
PHYSICAL SCIENCES.....	31,870	17.5	28,209	88.5	3,661	11.5
ASTRONOMY.....	565	.3	546	96.6	19	3.4
ATMOSPHERIC SCIENCES.....	879	.5	751	85.4	128	14.6
CHEMISTRY.....	13,990	7.7	12,404	88.7	1,586	11.3
GEOSCIENCES.....	4,210	2.3	3,788	90.0	422	10.0
OCEANOGRAPHY.....	1,119	.6	1,020	91.2	99	8.8
PHYSICS.....	11,107	6.1	9,700	87.3	1,407	12.7
MATHEMATICAL SCIENCES.....	15,499	8.5	11,816	76.2	3,683	23.8
APPLIED MATHEMATICS.....	2,916	1.6	2,123	72.8	793	27.2
MATHEMATICS.....	11,075	6.1	8,481	76.6	2,594	23.4
STATISTICS.....	1,508	.8	1,212	80.4	296	19.6
LIFE SCIENCES.....	32,282	17.7	28,888	89.5	3,394	10.5
AGRICULTURE.....	7,202	4.0	6,307	87.6	895	12.4
BIOCHEMISTRY.....	3,262	1.8	3,073	94.2	189	5.8
BIOLOGY.....	7,613	4.2	6,733	88.4	880	11.6
BOTANY.....	2,317	1.3	2,105	90.9	212	9.1
MICROBIOLOGY.....	2,271	1.2	2,069	91.1	202	8.9
PHARMACOLOGY.....	1,471	.8	1,292	87.8	179	12.2
PHYSIOLOGY.....	1,410	.8	1,297	92.0	113	8.0
ZOOLOGY.....	4,090	2.2	3,792	92.7	298	7.3
OTHER LIFE SCIENCES.....	2,646	1.5	2,220	83.9	426	16.1
PSYCHOLOGY.....	14,613	8.0	12,781	87.5	1,832	12.5
SOCIAL SCIENCES.....	39,327	21.6	29,573	75.2	9,754	24.8
AGRICULTURAL ECONOMICS.....	954	.5	835	87.5	119	12.5
ANTHROPOLOGY.....	3,799	2.1	3,363	89.0	436	11.0
ECONOMICS (EXCEPT AGRICULTURAL).....	8,129	4.8	6,912	79.2	1,817	20.8
GEOGRAPHY.....	1,799	1.0	1,625	90.3	174	9.7
HISTORY AND PHILOSOPHY OF SCIENCE.....	727	.4	659	90.6	68	9.4
LINGUISTICS.....	3,209	1.8	2,366	74.4	823	25.6
POLITICAL SCIENCE.....	10,968	6.0	7,091	64.7	3,877	35.3
SOCIOLOGY.....	7,984	4.4	5,975	74.8	2,009	25.2
SOCIOLOGY AND ANTHROPOLOGY.....	1,158	.6	707	61.1	451	38.9

TABLE C-2. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE AND CITIZENSHIP, 1971

AREA AND FIELD OF SCIENCE	TOTAL		U.S. CITIZENS		FOREIGN STUDENTS	
	NUMBER	PERCENT DISTRIBUTION	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE.....	182,001	100.0	149,064	81.9	32,937	18.1
ENGINEERING.....	48,410	26.6	34,835	72.0	13,575	28.0
AERONAUTICAL.....	1,742	1.0	1,297	74.5	445	25.5
AGRICULTURAL.....	518	.3	329	63.5	189	36.5
CHEMICAL.....	4,441	2.4	2,880	64.9	1,561	35.1
CIVIL.....	7,636	4.2	5,162	67.6	2,474	32.4
ELECTRICAL.....	13,822	7.6	10,431	75.5	3,391	24.5
ENGINEERING SCIENCE.....	1,432	.8	928	64.8	504	35.2
INDUSTRIAL.....	4,809	2.6	3,716	77.3	1,093	22.7
MECHANICAL.....	7,239	4.0	5,321	73.5	1,918	26.5
METALLURGICAL AND MATERIALS.....	2,205	1.2	1,488	67.5	717	32.5
MINING.....	305	.2	145	47.5	160	52.5
NUCLEAR.....	1,161	.6	888	76.5	273	23.5
PETROLEUM.....	218	.1	139	63.8	79	36.2
OTHER ENGINEERING.....	2,882	1.6	2,111	73.2	771	26.8
PHYSICAL SCIENCES.....	31,870	17.5	25,785	80.9	6,085	19.1
ASTRONOMY.....	565	.3	509	90.1	56	9.9
ATMOSPHERIC SCIENCES.....	879	.5	732	83.3	147	16.7
CHEMISTRY.....	13,990	7.7	11,277	80.6	2,713	19.4
GEOSCIENCES.....	4,210	2.3	3,619	86.0	591	14.0
OCEANOGRAPHY.....	1,119	.6	1,009	90.2	110	9.8
PHYSICS.....	11,107	6.1	8,639	77.8	2,468	22.2
MATHEMATICAL SCIENCES.....	15,499	8.5	12,938	83.5	2,561	16.5
APPLIED MATHEMATICS.....	2,916	1.6	2,389	81.9	527	18.1
MATHEMATICS.....	11,075	6.1	9,503	85.8	1,572	14.2
STATISTICS.....	1,508	.8	1,046	69.4	462	30.6
LIFE SCIENCES.....	32,282	17.7	27,652	85.7	4,630	14.3
AGRICULTURE.....	7,202	4.0	5,421	75.3	1,781	24.7
BIOCHEMISTRY.....	3,262	1.8	2,707	83.0	555	17.0
BIOLOGY.....	7,613	4.2	6,972	91.6	641	8.4
BOTANY.....	2,317	1.3	1,898	81.9	419	18.1
MICROBIOLOGY.....	2,271	1.2	2,002	88.2	269	11.8
PHARMACOLOGY.....	1,471	.8	1,136	77.2	335	22.8
PHYSIOLOGY.....	1,410	.8	1,268	89.9	142	10.1
ZOOLOGY.....	4,090	2.2	3,653	94.2	437	5.8
OTHER LIFE SCIENCES.....	2,646	1.5	2,395	90.5	251	9.5
PSYCHOLOGY.....	14,613	8.0	14,032	96.0	581	4.0
SOCIAL SCIENCES.....	39,327	21.6	33,802	86.0	5,525	14.0
AGRICULTURAL ECONOMICS.....	954	.5	675	70.8	279	29.2
ANTHROPOLOGY.....	3,799	2.1	3,562	93.8	237	6.2
ECONOMICS (EXCEPT AGRICULTURAL).....	8,729	4.8	6,513	74.6	2,216	25.4
GEOGRAPHY.....	1,799	1.0	1,528	84.9	271	15.1
HISTORY AND PHILOSOPHY OF SCIENCE.....	727	.4	670	92.2	57	7.8
LINGUISTICS.....	3,209	1.8	2,754	85.8	455	14.2
POLITICAL SCIENCE.....	10,968	6.0	9,880	90.1	1,088	9.9
SOCIOLOGY.....	7,984	4.4	7,176	89.8	808	10.1
SOCIOLOGY AND ANTHROPOLOGY.....	1,158	.6	1,044	90.2	114	9.8

TABLE C-3. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE, ENROLLMENT STATUS, AND CITIZENSHIP, 1971

AREA AND FIELD OF SCIENCE	FULL TIME			PART TIME						
	U.S. CITIZENS		FOREIGN STUDENTS	U.S. CITIZENS		FOREIGN STUDENTS				
	PERCENT UP	NUMBER		PERCENT UP	NUMBER					
TOTAL	NUMBER	TOTAL	NUMBER	TOTAL	NUMBER	TOTAL				
TOTAL, ALL FIELDS OF SCIENCE.....	142,169	79.4	28,749	20.2	39,832	35,624	89.4	4,208	10.6	
ENGINEERING.....	30,902	19,885	64.3	11,017	35.7	17,508	14,950	85.4	2,558	14.6
AERONAUTICAL.....	1,355	947	69.9	408	30.1	387	350	90.4	37	9.6
AGRICULTURAL.....	3,427	252	59.0	175	41.0	91	77	84.6	14	15.4
CHEMICAL.....	3,183	1,632	51.6	1,351	42.4	1,258	1,048	83.3	210	16.7
CIVIL.....	5,144	3,259	63.4	1,885	36.6	2,492	1,903	76.4	589	23.6
ELECTRICAL.....	7,380	4,847	65.7	2,533	34.3	6,442	5,584	86.7	858	13.3
ENGINEERING SCIENCE.....	1,201	718	59.8	483	40.2	231	210	90.9	21	9.1
INDUSTRIAL.....	2,754	1,913	69.5	841	30.5	2,055	1,803	87.7	252	12.3
MECHANICAL.....	4,291	2,722	63.4	1,569	36.6	2,948	2,599	88.2	349	11.8
METALLURGICAL AND MATERIALS.....	1,717	1,057	61.6	660	38.4	488	431	88.3	57	11.7
MINING.....	276	124	44.9	152	55.1	29	21	72.4	8	27.6
NUCLEAR.....	898	652	72.6	246	27.4	263	236	89.7	27	10.3
PETROLEUM.....	157	82	52.2	75	47.8	61	57	93.4	4	6.6
OTHER ENGINEERING.....	2,119	1,480	69.8	639	30.2	763	631	82.7	132	17.3
PHYSICAL SCIENCES.....	28,209	22,492	79.7	5,717	20.3	3,661	3,293	89.9	368	10.1
ASTRONOMY.....	546	490	89.7	56	10.3	14	19	100.0	0	0.0
ATMOSPHERIC SCIENCES.....	751	616	82.0	135	18.0	128	116	90.6	12	9.4
CHEMISTRY.....	12,404	9,911	79.9	2,493	20.1	1,586	1,366	86.1	220	13.9
GEOSCIENCES.....	3,788	3,221	85.0	567	15.0	422	398	94.3	24	5.7
OCEANOGRAPHY.....	1,020	919	90.1	101	9.9	99	90	90.9	9	9.1
PHYSICS.....	9,700	7,335	75.6	2,365	24.4	1,407	1,304	92.7	103	7.3
MATHEMATICAL SCIENCES.....	11,816	9,451	80.0	2,365	20.0	3,683	3,487	94.7	196	5.3
APPLIED MATHEMATICS.....	2,123	1,640	77.2	483	22.8	793	749	94.5	44	5.5
MATHEMATICS.....	8,481	7,030	82.9	1,451	17.1	2,594	2,473	95.3	121	4.7
STATISTICS.....	1,212	781	64.4	431	35.6	256	265	89.5	31	10.5
LIFE SCIENCES.....	28,888	24,487	84.8	4,401	15.2	3,394	3,165	93.3	229	6.7
AGRICULTURE.....	6,307	4,585	72.7	1,722	27.3	895	836	93.4	59	6.6
BIOCHEMISTRY.....	3,073	2,647	86.2	526	17.1	189	160	84.7	29	15.3
BIOLOGY.....	6,733	6,119	90.9	614	9.1	880	853	96.9	27	3.1
BOTANY.....	2,105	1,712	81.3	393	18.7	212	186	87.7	26	12.3
MICROBIOLOGY.....	2,069	1,814	87.7	255	12.3	202	188	93.1	14	6.9
PHARMACOLOGY.....	1,292	979	75.8	313	24.2	179	157	87.7	22	12.3
PHYSIOLOGY.....	1,297	1,170	90.2	127	9.8	113	98	86.7	15	13.3
ZOOLOGY.....	3,792	3,568	94.1	224	5.9	288	285	99.0	13	4.4
OTHER LIFE SCIENCES.....	2,220	1,993	89.8	227	10.2	426	402	94.4	24	5.6
PSYCHOLOGY.....	12,781	12,250	95.8	531	4.2	1,832	1,782	97.3	50	2.7
SOCIAL SCIENCES.....	29,573	24,855	84.0	4,718	16.0	9,754	8,947	91.7	807	8.3
AGRICULTURAL ECONOMICS.....	835	570	68.3	265	31.7	119	105	88.2	14	11.8
ANTHROPOLOGY.....	3,383	3,170	93.7	213	6.3	416	392	94.2	24	5.8
ECONOMICS (EXCEPT AGRICULTURAL).....	6,912	5,028	72.7	1,884	27.3	1,817	1,485	81.7	332	18.3
GEOGRAPHY.....	1,625	1,367	84.1	258	15.9	174	161	92.5	13	7.5
HISTORY AND PHILOSOPHY OF SCIENCE.....	659	604	91.7	55	8.3	68	66	97.1	2	2.9
LINGUISTICS.....	2,386	1,981	83.0	405	17.0	823	773	93.9	50	6.1
POLITICAL SCIENCE.....	7,091	6,212	87.6	879	12.4	3,877	3,668	94.6	209	5.4
SOCIOLOGY.....	5,975	5,291	88.6	684	11.4	2,009	1,885	93.8	124	6.2
PSYCHOLOGY AND ANTHROPOLOGY.....	707	632	89.4	75	10.6	451	412	91.4	39	8.6

TABLE C-6. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE AND LEVEL OF STUDY, 1971

AREA AND FIELD OF SCIENCE	TOTAL		FIRST YEAR		BEYOND FIRST YEAR	
	NUMBER	PERCENT DISTRIBUTION	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE.....	182,001	100.0	59,353	32.6	122,648	67.4
ENGINEERING.....	48,410	26.6	20,050	41.4	28,360	58.6
AERONAUTICAL.....	1,742	1.0	612	35.1	1,130	64.9
AGRICULTURAL.....	518	.3	186	35.9	332	64.1
CHEMICAL.....	4,441	2.4	1,438	32.4	3,003	67.6
CIVIL.....	7,636	4.2	3,824	50.1	3,812	49.9
ELECTRICAL.....	13,822	7.6	5,948	43.0	7,874	57.0
ENGINEERING SCIENCE.....	1,432	.8	361	23.8	1,071	76.2
INDUSTRIAL.....	4,809	2.6	2,346	48.8	2,463	51.2
MECHANICAL.....	7,239	4.0	3,239	44.7	4,000	55.3
METALLURGICAL AND MATERIALS.....	2,205	1.2	580	26.3	1,625	73.7
MINING.....	305	.2	102	33.4	203	66.6
NUCLEAR.....	1,161	.6	383	33.0	778	67.0
PETROLEUM.....	218	.1	69	31.7	149	68.3
OTHER ENGINEERING.....	2,682	1.6	982	34.1	1,900	65.9
PHYSICAL SCIENCES.....	31,870	17.5	7,896	24.8	23,974	75.2
ASTRONOMY.....	565	.3	117	20.7	448	79.3
ATMOSPHERIC SCIENCES.....	879	.5	287	32.7	592	67.3
CHEMISTRY.....	13,990	7.7	3,513	25.1	10,477	74.9
GEOGRAPHY.....	4,210	2.3	1,309	31.1	2,901	68.9
OCEANOGRAPHY.....	1,119	.6	331	29.6	788	70.4
PHYSICS.....	11,107	6.1	2,339	21.1	8,768	78.9
MATHEMATICAL SCIENCES.....	15,499	8.5	5,335	34.4	10,164	65.6
APPLIED MATHEMATICS.....	2,916	1.6	1,004	34.4	1,912	65.6
MATHEMATICS.....	11,075	6.1	3,859	34.8	7,216	65.2
STATISTICS.....	1,508	.8	472	31.3	1,036	68.7
LIFE SCIENCES.....	32,282	17.7	9,203	28.5	23,079	71.5
AGRICULTURE.....	7,202	4.0	2,226	30.9	4,976	69.1
BIOCHEMISTRY.....	3,262	1.8	774	23.7	2,488	76.3
BIOLOGY.....	7,613	4.2	2,116	27.8	5,497	72.2
BOTANY.....	2,317	1.3	540	23.3	1,777	76.7
MICROBIOLOGY.....	2,271	1.2	650	28.6	1,621	71.4
PHARMACOLOGY.....	1,471	.8	426	29.0	1,045	71.0
PHYSIOLOGY.....	1,410	.8	378	26.8	1,032	73.2
ZOOLOGY.....	4,090	2.2	1,262	30.9	2,828	69.1
OTHER LIFE SCIENCES.....	2,646	1.5	831	31.4	1,815	68.6
PSYCHOLOGY.....	14,613	8.0	3,937	26.9	10,676	73.1
SOCIAL SCIENCES.....	39,327	21.6	12,932	32.9	26,395	67.1
AGRICULTURAL ECONOMICS.....	954	.5	281	29.5	673	70.5
ANTHROPOLOGY.....	3,799	2.1	1,101	29.0	2,698	71.0
ECONOMICS (EXCEPT AGRICULTURAL).....	8,729	4.8	2,789	32.0	5,940	68.0
GEOGRAPHY.....	1,799	1.0	509	28.3	1,290	71.7
HISTORY AND PHILOSOPHY OF SCIENCE.....	727	.4	212	29.2	515	70.8
LINGUISTICS.....	3,209	1.8	1,143	35.6	2,066	64.4
POLITICAL SCIENCE.....	10,968	6.0	3,888	35.4	7,080	64.6
SOCIOLOGY.....	7,984	4.4	2,627	32.9	5,357	67.1
SOCIOLOGY AND ANTHROPOLOGY.....	1,158	.6	382	33.0	776	67.0

TABLE C-5. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE, ENROLLMENT STATUS, AND LEVEL OF STUDY, 1971

AREA AND FIELD OF SCIENCE	FULL TIME				PART TIME			
	FIRST YEAR		BEYOND FIRST YEAR		FIRST YEAR		BEYOND FIRST YEAR	
	TOTAL	NUMBER	PERCENT OF TOTAL	NUMBER	TOTAL	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE.....	142,169	44,716	31.5	97,453	68.5	39,832	14,637	36.7
ENGINEERING.....	30,902	12,019	38.9	18,883	61.1	17,508	8,031	45.9
AERONAUTICAL.....	1,355	496	36.6	859	63.4	387	116	30.0
AGRICULTURAL.....	427	172	40.3	255	59.7	91	14	15.4
CHEMICAL.....	3,183	1,009	31.7	2,174	68.3	1,258	429	34.1
CIVIL.....	5,144	2,591	50.4	2,553	49.6	1,233	49.5	39.8
ELECTRICAL.....	7,380	2,861	38.8	4,519	61.2	2,442	3,087	47.9
ENGINEERING SCIENCE.....	1,201	265	22.1	936	77.9	621	76	32.9
INDUSTRIAL.....	2,754	1,220	44.3	1,534	55.7	2,055	1,126	54.8
MECHANICAL.....	4,291	1,754	40.9	2,537	59.1	2,948	1,463	49.6
METALLURGICAL AND MATERIALS.....	1,717	476	27.7	1,241	72.3	488	104	21.3
MINING.....	276	98	35.5	178	64.5	29	4	13.8
NUCLEAR.....	898	313	34.9	585	65.1	263	70	26.6
PETROLEUM.....	157	53	33.8	104	66.2	61	16	26.2
OTHER ENGINEERING.....	2,119	711	33.6	1,408	66.4	763	271	35.5
PHYSICAL SCIENCES.....	28,209	7,025	24.9	21,184	75.1	3,661	871	23.8
ASTRONOMY.....	546	114	20.9	432	79.1	19	3	15.8
ATMOSPHERIC SCIENCES.....	751	255	34.0	496	66.0	128	32	25.0
CHEMISTRY.....	12,404	3,011	24.3	9,393	75.7	1,586	502	31.7
GEOLOGICAL.....	3,788	1,247	32.9	2,541	67.1	422	62	14.7
OCEANOGRAPHY.....	1,020	298	29.2	722	70.8	99	33	33.3
PHYSICS.....	9,700	2,100	21.6	7,600	78.4	1,407	239	17.0
MATHEMATICAL SCIENCES.....	11,816	3,901	33.0	7,915	67.0	3,683	1,434	38.9
APPLIED MATHEMATICS.....	2,123	727	34.2	1,396	65.8	793	277	34.9
MATHEMATICS.....	8,481	2,816	33.2	5,665	66.8	2,894	1,043	40.2
STATISTICS.....	1,212	358	29.5	854	70.5	296	114	38.5
LIFE SCIENCES.....	28,888	8,376	29.0	20,512	71.0	3,394	827	24.4
AGRICULTURE.....	6,307	2,043	32.4	4,264	67.6	895	183	20.4
BIOCHEMISTRY.....	3,073	723	23.5	2,350	76.5	189	51	27.0
BIOLOGY.....	6,733	1,873	27.8	4,860	72.2	880	243	27.6
BOTANY.....	2,105	511	24.3	1,594	75.7	212	29	13.7
CELL BIOLOGY.....	2,069	601	29.0	1,468	71.0	202	49	24.3
PHARMACOLOGY.....	1,292	373	28.9	919	71.1	179	53	29.6
PHYSIOLOGY.....	1,297	350	27.0	947	73.0	113	28	24.8
ZOOLOGY.....	3,792	1,193	31.5	2,599	68.5	298	69	23.2
OTHER LIFE SCIENCES.....	2,220	709	31.9	1,511	68.1	426	122	28.6
PSYCHOLOGY.....	12,781	3,541	27.7	9,240	72.3	1,832	396	21.6
SOCIAL SCIENCES.....	29,573	9,854	33.3	19,719	66.7	9,754	3,078	31.6
AGRICULTURAL ECONOMICS.....	835	271	32.5	564	67.5	119	10	8.4
ANTHROPOLOGY.....	3,383	964	28.5	2,419	71.5	416	137	32.9
ECONOMICS (EXCEPT AGRICULTURAL).....	6,912	2,334	33.8	4,578	66.2	1,817	455	25.0
GEOGRAPHY.....	1,625	484	29.8	1,141	70.2	174	25	14.4
HISTORY AND PHILOSOPHY OF SCIENCE.....	659	199	30.2	460	69.8	68	13	19.1
LINGUISTICS.....	2,386	865	36.3	1,521	63.7	823	278	33.8
POLITICAL SCIENCE.....	7,091	2,434	34.3	4,657	65.7	3,877	1,454	37.5
SOCIOLOGY.....	5,975	2,006	33.6	3,969	66.4	2,009	621	30.9
SOCIOLOGY AND ANTHROPOLOGY.....	707	297	42.0	410	58.0	451	85	18.8
							366	81.2
							1,436	78.4
							6,676	68.4
							109	91.6
							274	67.1
							1,37	75.0
							25	35.6
							13	10.9
							278	33.8
							1,454	37.5
							621	30.9
							85	18.8

TABLE C-6. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE AND TYPE OF MAJOR SUPPORT, 1971

AREA AND FIELD OF SCIENCE	TOTAL		FELLOWSHIPS AND TRAINEESHIPS		RESEARCH ASSISTANTS		TEACHING ASSISTANTS		OTHER TYPES OF SUPPORT	
	NUMBER	PERCENT DISTRIBUTION	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE.....	142,169	100.0	36,103	25.4	29,668	20.9	35,140	24.7	41,258	29.0
ENGINEERING.....	30,902	21.7	6,787	22.0	9,086	29.4	4,367	14.1	10,662	34.5
AERONAUTICAL.....	1,355	1.0	250	18.5	571	42.1	168	12.4	366	27.0
AGRICULTURAL.....	427	.3	82	19.2	211	49.4	20	4.7	114	26.7
CHEMICAL.....	3,183	2.2	872	27.4	1,088	34.2	503	15.8	720	22.6
CIVIL.....	5,144	3.6	1,430	27.8	1,298	25.2	485	9.4	1,931	37.5
ELECTRICAL.....	7,380	5.2	1,234	16.7	1,895	25.2	1,392	18.9	2,859	38.7
ENGINEERING SCIENCE.....	1,201	.8	270	22.5	364	30.3	315	26.2	252	21.0
INDUSTRIAL.....	2,754	1.9	440	16.0	508	18.4	306	11.1	1,500	54.5
MECHANICAL.....	4,291	3.0	804	18.7	1,181	27.5	684	15.9	1,622	37.8
METALLURGICAL AND MATERIALS.....	1,717	1.2	305	17.8	940	54.7	180	10.5	292	17.0
MINING.....	276	.2	65	23.6	127	46.0	21	7.6	63	22.8
NUCLEAR.....	898	.6	305	34.0	235	26.2	86	9.6	272	30.3
PETROLEUM.....	157	.1	44	28.0	58	36.9	29	18.5	26	16.6
OTHER ENGINEERING.....	2,119	1.5	686	32.4	610	28.8	178	8.4	645	30.4
PHYSICAL SCIENCES.....	28,209	19.8	5,209	18.5	8,494	30.1	10,552	37.4	3,954	14.0
ASTRONOMY.....	546	.4	129	23.6	213	39.0	107	19.6	97	17.8
ATMOSPHERIC SCIENCES.....	751	.5	168	19.7	372	49.5	53	7.1	178	23.7
CHEMISTRY.....	12,404	8.7	2,338	18.8	3,196	25.8	5,769	46.5	1,099	8.9
GEOSCIENCES.....	3,788	2.7	704	18.6	853	22.5	1,190	31.4	1,041	27.5
OCEANOGRAPHY.....	1,020	.7	181	17.7	587	57.5	42	4.1	210	20.6
PHYSICS.....	9,700	6.8	1,709	17.6	3,271	33.7	3,391	35.0	1,329	13.7
MATHEMATICAL SCIENCES.....	11,816	8.3	2,220	18.8	1,072	9.1	5,207	44.1	3,317	28.1
APPLIED MATHEMATICS.....	2,123	1.5	319	15.0	485	22.8	425	20.0	894	42.1
MATHEMATICS.....	8,481	6.0	1,900	17.7	388	4.6	4,491	53.0	2,102	24.8
STATISTICS.....	1,212	.9	401	33.1	199	16.4	291	24.0	321	26.5
LIFE SCIENCES.....	28,888	20.3	8,738	30.2	6,510	22.5	6,642	23.0	6,998	24.2
AGRICULTURE.....	6,307	4.4	1,262	20.0	2,902	46.0	414	6.6	1,729	27.4
BIOCHEMISTRY.....	3,073	2.2	1,454	47.3	767	25.0	427	13.9	425	13.8
BIOLOGY.....	6,733	4.7	2,053	31.1	618	9.2	2,107	31.3	1,915	28.4
BOTANY.....	2,105	1.5	352	16.7	545	25.9	770	36.6	438	20.8
MICROBIOLOGY.....	2,069	1.5	875	42.3	350	16.9	490	23.7	354	17.1
PHARMACOLOGY.....	1,292	.9	566	43.8	186	15.2	345	26.7	185	14.3
PHYSIOLOGY.....	1,297	.9	568	43.8	185	12.7	196	15.1	368	28.4
ZOOLOGY.....	3,792	2.7	688	18.1	633	16.7	1,485	39.2	986	26.0
OTHER LIFE SCIENCES.....	2,220	1.6	880	39.6	334	15.0	408	18.4	598	26.9
PSYCHOLOGY.....	12,781	9.0	4,470	35.0	1,738	13.6	2,608	20.4	3,965	31.0
SOCIAL SCIENCES.....	29,573	20.8	8,679	29.3	2,768	9.4	5,764	19.5	12,362	41.8
AGRICULTURAL ECONOMICS.....	835	.6	160	19.2	453	54.3	29	3.5	163	23.1
ANTHROPOLOGY.....	3,383	2.4	1,086	32.1	201	5.9	642	19.0	1,454	43.0
ECONOMICS (EXCEPT AGRICULTURAL).....	6,912	4.9	1,998	28.9	823	11.9	1,473	21.3	2,618	37.9
GEOGRAPHY.....	1,625	1.1	384	23.6	115	7.1	499	30.7	627	38.6
HISTORY AND PHILOSOPHY OF SCIENCE.....	659	.5	258	39.2	28	4.2	166	25.2	207	31.4
LINGUISTICS.....	2,386	1.7	741	31.1	135	5.7	431	18.1	1,079	45.2
POLITICAL SCIENCE.....	7,091	5.0	1,931	27.2	430	6.1	1,197	16.9	3,523	49.8
SOCIOLOGY.....	5,975	4.2	1,924	32.2	532	8.9	1,207	20.2	2,312	38.7
SOCIOLOGY AND ANTHROPOLOGY.....	707	.5	197	27.9	51	7.2	120	17.0	334	47.9

TABLE C-7. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY AREA OF SCIENCE, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1971

AREA OF SCIENCE	TOTAL	FELLOWSHIPS AND TRAINEESHIPS	RESEARCH ASSISTANTSHIPS	TEACHING ASSISTANTSHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL AREAS OF SCIENCE.....	142,169	36,103	29,668	35,140	41,258
ENGINEERING.....	30,902	6,787	9,086	4,367	10,662
PHYSICAL SCIENCES.....	28,209	5,209	8,494	10,552	3,954
MATHEMATICAL SCIENCES.....	11,616	2,220	1,072	5,207	3,317
LIFE SCIENCES.....	28,688	8,738	6,510	6,842	6,998
PSYCHOLOGY.....	12,781	4,470	1,738	2,608	3,965
SOCIAL SCIENCES.....	29,573	8,679	2,768	5,764	12,362
U.S. CITIZENS, TOTAL.....	113,420	31,035	21,313	28,510	32,562
ENGINEERING.....	19,885	5,514	5,156	2,758	6,457
PHYSICAL SCIENCES.....	22,492	4,497	6,549	8,217	3,229
MATHEMATICAL SCIENCES.....	9,451	1,906	710	4,270	2,565
LIFE SCIENCES.....	24,487	7,757	5,037	5,822	5,871
PSYCHOLOGY.....	12,250	4,359	1,609	2,466	3,816
SOCIAL SCIENCES.....	24,855	7,002	2,252	4,977	10,624
FOREIGN STUDENTS, TOTAL.....	28,749	5,068	8,355	6,630	8,596
ENGINEERING.....	11,017	1,273	3,930	1,609	4,205
PHYSICAL SCIENCES.....	5,717	712	1,945	2,335	725
MATHEMATICAL SCIENCES.....	2,365	314	362	937	752
LIFE SCIENCES.....	4,401	981	1,473	820	1,127
PSYCHOLOGY.....	531	111	129	142	149
SOCIAL SCIENCES.....	4,718	1,677	516	787	1,738
PERCENT DISTRIBUTION					
TOTAL, ALL AREAS OF SCIENCE.....	100.0	100.0	100.0	100.0	100.0
ENGINEERING.....	21.7	18.8	30.6	12.4	25.8
PHYSICAL SCIENCES.....	19.8	14.4	28.6	30.0	9.6
MATHEMATICAL SCIENCES.....	8.3	6.1	3.6	14.8	8.0
LIFE SCIENCES.....	20.3	24.2	21.9	18.9	17.0
PSYCHOLOGY.....	9.0	12.4	5.9	7.4	9.6
SOCIAL SCIENCES.....	20.8	24.0	9.3	16.4	30.0
U.S. CITIZENS, TOTAL.....	79.8	86.0	71.8	81.1	78.9
ENGINEERING.....	14.0	15.3	17.4	15.7	15.7
PHYSICAL SCIENCES.....	15.8	12.5	22.1	23.4	7.8
MATHEMATICAL SCIENCES.....	6.6	5.3	5.4	12.2	6.2
LIFE SCIENCES.....	17.2	21.5	17.0	16.6	14.2
PSYCHOLOGY.....	8.6	14.1	5.4	7.0	9.2
SOCIAL SCIENCES.....	17.5	19.4	7.6	14.2	25.8
FOREIGN STUDENTS, TOTAL.....	20.2	14.0	28.2	18.9	21.1
ENGINEERING.....	7.7	3.5	13.2	4.6	10.2
PHYSICAL SCIENCES.....	4.0	2.0	6.6	6.6	1.8
MATHEMATICAL SCIENCES.....	1.7	.9	1.2	2.7	1.8
LIFE SCIENCES.....	3.1	2.7	5.0	2.3	2.7
PSYCHOLOGY.....	.4	.3	.4	.4	.4
SOCIAL SCIENCES.....	3.3	4.6	1.7	2.2	4.2
PERCENT OF TOTAL					
TOTAL, ALL AREAS OF SCIENCE.....	100.0	25.4	20.9	24.7	29.0
ENGINEERING.....	100.0	22.0	29.4	14.1	34.5
PHYSICAL SCIENCES.....	100.0	18.5	30.1	37.4	14.0
MATHEMATICAL SCIENCES.....	100.0	30.2	9.1	44.1	28.1
LIFE SCIENCES.....	100.0	35.0	22.5	23.0	24.2
PSYCHOLOGY.....	100.0	29.3	13.6	20.4	31.0
SOCIAL SCIENCES.....	100.0	27.4	9.4	19.5	41.8
U.S. CITIZENS, TOTAL.....	100.0	27.4	18.8	25.1	28.7
ENGINEERING.....	100.0	20.0	25.9	13.9	32.5
PHYSICAL SCIENCES.....	100.0	20.2	29.1	36.5	14.4
MATHEMATICAL SCIENCES.....	100.0	31.7	7.5	45.2	27.1
LIFE SCIENCES.....	100.0	35.6	20.6	23.8	24.0
PSYCHOLOGY.....	100.0	28.2	13.1	20.1	31.2
SOCIAL SCIENCES.....	100.0	17.6	9.1	20.0	42.7
FOREIGN STUDENTS, TOTAL.....	100.0	17.6	29.1	23.1	30.2
ENGINEERING.....	100.0	11.6	35.7	14.0	38.2
PHYSICAL SCIENCES.....	100.0	12.5	34.0	40.8	12.7
MATHEMATICAL SCIENCES.....	100.0	13.3	15.3	39.6	31.8
LIFE SCIENCES.....	100.0	22.3	33.5	18.6	25.6
PSYCHOLOGY.....	100.0	20.9	24.3	26.7	28.1
SOCIAL SCIENCES.....	100.0	35.5	10.9	6.7	36.8

TABLE C-8. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY AREA OF SCIENCE, LEVEL OF STUDY, AND TYPE OF MAJOR SUPPORT, 1971

AREA OF SCIENCE	TOTAL	FELLOWSHIPS AND TRAINEESHIPS	RESEARCH ASSISTANTSHIPS	TEACHING ASSISTANTSHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL AREAS OF SCIENCE.....	142,169	36,103	29,668	35,140	41,258
ENGINEERING.....	30,902	6,787	9,086	9,367	10,662
PHYSICAL SCIENCES.....	28,209	5,209	8,494	10,552	3,954
MATHEMATICAL SCIENCES.....	11,816	2,220	1,072	5,207	3,317
LIFE SCIENCES.....	28,888	8,738	6,510	6,642	6,998
PSYCHOLOGY.....	12,781	4,470	1,738	2,608	3,965
SOCIAL SCIENCES.....	29,573	8,679	2,768	5,764	12,362
FIRST YEAR, TOTAL..	44,716	10,368	6,309	10,493	17,546
ENGINEERING.....	12,019	2,849	2,463	1,416	5,291
PHYSICAL SCIENCES.....	7,025	1,181	779	3,632	1,433
MATHEMATICAL SCIENCES.....	3,901	621	214	1,535	1,531
LIFE SCIENCES.....	8,376	1,932	1,497	1,911	3,036
PSYCHOLOGY.....	3,541	1,167	522	699	1,153
SOCIAL SCIENCES.....	9,854	2,618	834	1,300	5,102
BEYOND FIRST YEAR, TOTAL.....	97,453	25,735	23,359	24,647	23,712
ENGINEERING.....	18,883	3,938	6,623	2,951	5,371
PHYSICAL SCIENCES.....	21,184	4,028	7,715	6,920	2,521
MATHEMATICAL SCIENCES.....	7,915	1,599	858	3,672	1,786
LIFE SCIENCES.....	20,512	6,806	5,013	4,731	3,962
PSYCHOLOGY.....	9,240	3,303	1,216	1,909	2,812
SOCIAL SCIENCES.....	19,719	6,061	1,934	4,464	7,260
TOTAL, ALL AREAS OF SCIENCE.....	100.0	100.0	100.0	100.0	100.0
ENGINEERING.....	21.7	18.8	30.6	12.4	25.8
PHYSICAL SCIENCES.....	19.8	14.4	28.6	30.0	9.6
MATHEMATICAL SCIENCES.....	8.3	6.1	3.6	14.8	8.0
LIFE SCIENCES.....	20.3	24.2	21.9	18.9	17.0
PSYCHOLOGY.....	9.0	12.4	5.9	7.4	9.6
SOCIAL SCIENCES.....	20.8	24.0	9.3	16.4	30.0
FIRST YEAR, TOTAL..	31.5	28.7	21.3	29.9	42.5
ENGINEERING.....	8.5	3.9	4.0	4.0	12.8
PHYSICAL SCIENCES.....	4.9	3.5	2.6	10.3	3.5
MATHEMATICAL SCIENCES.....	2.7	1.7	1.7	4.4	3.7
LIFE SCIENCES.....	5.9	5.4	5.0	5.4	7.4
PSYCHOLOGY.....	2.5	3.2	1.8	2.0	2.8
SOCIAL SCIENCES.....	6.9	7.3	2.8	3.7	12.4
BEYOND FIRST YEAR, TOTAL.....	68.5	71.3	78.7	70.1	57.5
ENGINEERING.....	13.3	10.9	22.3	8.4	13.0
PHYSICAL SCIENCES.....	14.9	11.2	26.0	19.7	6.1
MATHEMATICAL SCIENCES.....	5.6	4.4	2.9	10.4	4.3
LIFE SCIENCES.....	14.4	18.9	16.9	13.5	9.6
PSYCHOLOGY.....	6.5	9.1	4.1	5.4	6.8
SOCIAL SCIENCES.....	13.9	16.8	6.5	12.7	17.6
TOTAL, ALL AREAS OF SCIENCE.....	100.0	100.0	100.0	100.0	100.0
ENGINEERING.....	25.4	20.9	24.7	24.7	29.0
PHYSICAL SCIENCES.....	22.0	28.4	14.1	14.1	34.5
MATHEMATICAL SCIENCES.....	18.5	30.1	37.4	37.4	14.0
LIFE SCIENCES.....	100.0	9.1	44.1	44.1	28.1
PSYCHOLOGY.....	100.0	30.2	23.0	23.0	24.2
SOCIAL SCIENCES.....	100.0	35.0	13.6	20.4	31.0
FIRST YEAR, TOTAL..	29.3	9.4	19.5	19.5	41.8
ENGINEERING.....	23.2	14.1	23.5	23.5	39.2
PHYSICAL SCIENCES.....	23.7	20.5	11.8	11.8	44.0
MATHEMATICAL SCIENCES.....	16.8	11.1	51.7	51.7	20.4
LIFE SCIENCES.....	100.0	5.5	39.3	39.3	39.2
PSYCHOLOGY.....	100.0	17.9	36.2	36.2	36.2
SOCIAL SCIENCES.....	100.0	33.0	19.7	19.7	32.6
BEYOND FIRST YEAR, TOTAL.....	70.7	8.5	13.2	13.2	51.8
ENGINEERING.....	26.4	24.0	25.3	25.3	24.3
PHYSICAL SCIENCES.....	26.9	35.1	32.7	32.7	28.4
MATHEMATICAL SCIENCES.....	100.0	36.4	46.4	46.4	11.9
LIFE SCIENCES.....	100.0	10.8	22.6	22.6	22.6
PSYCHOLOGY.....	100.0	23.4	23.1	23.1	19.3
SOCIAL SCIENCES.....	100.0	13.2	20.7	20.7	30.4
PERCENT OF TOTAL					
PERCENT DISTRIBUTION					

TABLE C-9. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY SOURCE OF MAJOR SUPPORT AND AREA OF SCIENCE, 1971

SOURCE OF MAJOR SUPPORT	TOTAL	ENGI- NEERING	PHYSICAL SCIENCES	MATHE- MATICAL SCIENCES	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES
TOTAL, ALL SOURCES OF SUPPORT.....	142,169	30,902	28,209	11,816	28,888	12,781	29,573
ALL U.S. SOURCES, TOTAL.....	139,839	29,930	27,874	11,676	28,506	12,737	29,116
U.S. GOVERNMENT.....	45,101	11,137	10,725	2,359	10,417	4,775	5,688
ATOMIC ENERGY COMMISSION.....	2,054	553	1,306	53	127	3	12
DEPARTMENT OF AGRICULTURE.....	983	55	27	6	745	0	150
DEPARTMENT OF DEFENSE.....	4,629	2,592	1,322	302	119	78	216
DEPARTMENT OF HEALTH.....	17,734	1,909	2,186	582	6,462	3,425	3,170
EDUCATION, AND WELFARE, TOTAL.....	4,796	713	960	370	935	405	1,413
NATIONAL DEFENSE EDUCATION ACT.....	11,538	1,016	1,151	158	5,278	2,641	1,294
NATIONAL INSTITUTES OF HEALTH.....	1,400	180	75	54	249	379	463
OTHER HEALTH.....	1,694	877	621	51	91	32	22
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.....	11,598	2,710	4,327	1,169	1,732	518	1,142
NATIONAL SCIENCE FOUNDATION.....	6,409	2,441	936	196	1,141	719	976
ALL OTHER U.S. GOVERNMENT AGENCIES.....	94,738	18,793	17,149	9,317	18,089	7,962	23,428
OTHER U.S. SOURCES.....	52,615	8,178	12,776	6,235	10,274	4,465	10,483
INSTITUTIONAL SUPPORT.....	3,998	685	634	134	907	244	1,334
PRIVATE FOUNDATIONS.....	3,709	2,207	532	223	513	101	133
INDUSTRY.....	31,876	7,267	2,774	2,598	5,573	2,790	10,844
SELF-SUPPORT.....	2,540	456	433	127	622	358	544
ALL OTHER U.S. SOURCES.....	2,330	972	335	140	382	44	457
FOREIGN SOURCES, TOTAL.....	2,330	972	335	140	382	44	457
TOTAL, ALL SOURCES OF SUPPORT.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ALL U.S. SOURCES, TOTAL.....	98.4	96.9	98.8	98.8	98.7	99.7	98.5
U.S. GOVERNMENT.....	31.7	36.0	38.0	20.0	36.1	37.4	19.2
ATOMIC ENERGY COMMISSION.....	1.4	1.8	4.6	.4	.4	.0	.0
DEPARTMENT OF AGRICULTURE.....	.7	.2	.1	.1	2.6	.0	.2
DEPARTMENT OF DEFENSE.....	3.3	8.4	4.7	2.6	.4	.6	.7
DEPARTMENT OF HEALTH.....	12.5	6.2	7.7	4.9	22.4	26.8	10.7
EDUCATION, AND WELFARE, TOTAL.....	3.4	2.3	3.4	3.1	3.2	3.2	4.8
NATIONAL DEFENSE EDUCATION ACT.....	8.1	3.3	4.1	1.3	18.3	20.7	4.4
NATIONAL INSTITUTES OF HEALTH.....	1.0	.6	.3	.5	.9	3.0	1.6
OTHER HEALTH.....	1.2	2.8	2.2	.4	.3	.3	.1
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.....	8.2	8.8	15.3	9.9	6.0	4.1	3.9
NATIONAL SCIENCE FOUNDATION.....	4.5	7.9	3.3	1.7	3.9	5.6	3.3
ALL OTHER U.S. GOVERNMENT AGENCIES.....	66.6	60.8	60.8	78.9	62.6	62.3	79.2
OTHER U.S. SOURCES.....	37.0	26.5	45.3	52.8	36.3	35.0	35.4
INSTITUTIONAL SUPPORT.....	2.8	2.2	2.2	1.1	3.1	1.9	4.7
PRIVATE FOUNDATIONS.....	2.6	7.1	1.9	1.9	1.8	.8	.4
INDUSTRY.....	22.4	23.5	9.8	22.0	19.3	21.8	36.8
SELF-SUPPORT.....	1.8	1.5	1.5	1.1	2.2	2.8	1.8
ALL OTHER U.S. SOURCES.....	1.6	3.1	1.2	1.2	1.3	.3	1.5
FOREIGN SOURCES, TOTAL.....	1.6	3.1	1.2	1.2	1.3	.3	1.5
TOTAL, ALL SOURCES OF SUPPORT.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ALL U.S. SOURCES, TOTAL.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. GOVERNMENT.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ATOMIC ENERGY COMMISSION.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DEPARTMENT OF AGRICULTURE.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DEPARTMENT OF DEFENSE.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DEPARTMENT OF HEALTH.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
EDUCATION, AND WELFARE, TOTAL.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NATIONAL DEFENSE EDUCATION ACT.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NATIONAL INSTITUTES OF HEALTH.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
OTHER HEALTH.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NATIONAL SCIENCE FOUNDATION.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ALL OTHER U.S. GOVERNMENT AGENCIES.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
OTHER U.S. SOURCES.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
INSTITUTIONAL SUPPORT.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PRIVATE FOUNDATIONS.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
INDUSTRY.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
SELF-SUPPORT.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ALL OTHER U.S. SOURCES.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
FOREIGN SOURCES, TOTAL.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE C-10. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY SOURCE AND TYPE OF MAJOR SUPPORT, 1971

SOURCE OF MAJOR SUPPORT	TOTAL	FELLOWSHIPS AND TRAINEESHIPS	RESEARCH ASSISTANTSHIPS	TEACHING ASSISTANTSHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL SOURCES OF SUPPORT.....	142,169	36,103	29,668	35,140	41,258
ALL U.S. SOURCES, TOTAL.....	139,839	34,689	29,621	35,140	40,389
U.S. GOVERNMENT.....	45,101	23,182	18,902	431	2,586
ATOMIC ENERGY COMMISSION.....	2,054	246	1,789	0	15
DEPARTMENT OF AGRICULTURE.....	983	39	881	0	63
DEPARTMENT OF DEFENSE.....	4,629	319	3,280	0	1,030
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL.....	17,734	14,246	3,238	101	149
NATIONAL DEFENSE EDUCATION ACT.....	4,796	4,745	46	0	15
NATIONAL INSTITUTES OF HEALTH.....	11,538	8,511	2,847	72	108
OTHER HEW.....	1,400	990	355	29	26
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.....	1,694	470	1,174	0	50
NATIONAL SCIENCE FOUNDATION.....	11,598	5,402	5,809	189	198
ALL OTHER U.S. GOVERNMENT AGENCIES.....	6,409	2,460	2,731	141	1,077
OTHER U.S. SOURCES.....	94,738	11,507	10,719	34,709	37,803
INSTITUTIONAL SUPPORT.....	52,615	7,130	8,419	34,442	2,624
PRIVATE FOUNDATIONS.....	3,998	2,593	1,005	116	284
INDUSTRY.....	3,709	1,375	1,029	16	1,289
SELF-SUPPORT.....	31,876	0	0	0	31,876
ALL OTHER U.S. SOURCES.....	2,540	409	266	135	1,730
FOREIGN SOURCES, TOTAL.....	2,330	1,414	47	0	869
PERCENT DISTRIBUTION					
TOTAL, ALL SOURCES OF SUPPORT.....	100.0	100.0	100.0	100.0	100.0
ALL U.S. SOURCES, TOTAL.....	98.4	96.1	99.8	100.0	97.9
U.S. GOVERNMENT.....	31.7	64.2	63.7	1.2	6.3
ATOMIC ENERGY COMMISSION.....	1.4	.7	6.0	.0	.0
DEPARTMENT OF AGRICULTURE.....	.7	.1	3.0	.0	.2
DEPARTMENT OF DEFENSE.....	3.3	.9	11.1	.0	2.5
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL.....	12.5	39.5	10.9	.3	.4
NATIONAL DEFENSE EDUCATION ACT.....	3.4	13.1	.1	.0	.0
NATIONAL INSTITUTES OF HEALTH.....	8.1	23.6	9.6	.2	.3
OTHER HEW.....	1.0	2.7	1.2	.1	.1
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.....	1.2	1.3	4.0	.0	.1
NATIONAL SCIENCE FOUNDATION.....	8.2	15.0	19.6	.5	.5
ALL OTHER U.S. GOVERNMENT AGENCIES.....	4.5	6.8	9.2	.4	2.6
OTHER U.S. SOURCES.....	66.6	31.9	36.1	98.8	91.6
INSTITUTIONAL SUPPORT.....	37.0	19.7	28.4	98.0	6.4
PRIVATE FOUNDATIONS.....	2.8	7.2	3.4	.3	.7
INDUSTRY.....	2.6	3.8	3.5	.0	3.1
SELF-SUPPORT.....	22.4	.0	.0	.0	77.3
ALL OTHER U.S. SOURCES.....	1.8	1.1	.9	.4	4.2
FOREIGN SOURCES, TOTAL.....	1.6	3.9	.2	.0	2.1
PERCENT OF TOTAL					
TOTAL, ALL SOURCES OF SUPPORT.....	100.0	25.4	20.9	24.7	29.0
ALL U.S. SOURCES, TOTAL.....	100.0	24.8	21.2	25.1	28.9
U.S. GOVERNMENT.....	100.0	51.4	41.9	1.0	5.7
ATOMIC ENERGY COMMISSION.....	100.0	12.0	87.1	.0	.9
DEPARTMENT OF AGRICULTURE.....	100.0	4.0	89.6	.0	6.4
DEPARTMENT OF DEFENSE.....	100.0	6.9	70.9	.0	22.3
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL.....	100.0	80.3	18.3	.6	.8
NATIONAL DEFENSE EDUCATION ACT.....	100.0	98.9	.8	.0	.3
NATIONAL INSTITUTES OF HEALTH.....	100.0	73.8	24.7	.6	.9
OTHER HEW.....	100.0	70.7	25.4	2.1	1.9
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.....	100.0	27.7	69.3	.0	3.0
NATIONAL SCIENCE FOUNDATION.....	100.0	46.6	50.1	1.6	1.7
ALL OTHER U.S. GOVERNMENT AGENCIES.....	100.0	38.4	42.6	2.2	16.8
OTHER U.S. SOURCES.....	100.0	12.1	11.3	36.6	39.9
INSTITUTIONAL SUPPORT.....	100.0	13.6	16.0	65.5	5.0
PRIVATE FOUNDATIONS.....	100.0	64.9	25.1	2.9	7.1
INDUSTRY.....	100.0	37.1	27.7	.4	34.8
SELF-SUPPORT.....	100.0	.0	.0	.0	100.0
ALL OTHER U.S. SOURCES.....	100.0	16.1	10.5	5.3	68.1
FOREIGN SOURCES, TOTAL.....	100.0	60.7	2.0	.0	37.3

TABLE C-11. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY U.S. GOVERNMENT SOURCES,
BY FIELD OF SCIENCE AND FEDERAL AGENCY, 1971

AREA AND FIELD OF SCIENCE	TOTAL	AEC	DEPT. OF AGRI.	DEPT. OF DEFENSE	TOTAL HEW	HEW				NSF	OTHER U.S. GOVT.
						NDEA	PHS (NIH)	OTHER HEW	NASA		
TOTAL, ALL FIELDS OF SCIENCE.....	45,101	2,054	983	4,629	17,734	4,796	11,538	1,400	1,694	11,548	6,409
ENGINEERING.....	11,137	553	55	2,592	1,909	713	1,016	180	877	2,710	2,441
AERONAUTICAL.....	732	5	0	300	32	27	5	0	179	116	100
AGRICULTURAL.....	112	0	30	0	19	14	5	0	2	14	47
CHEMICAL.....	1,091	82	14	84	235	106	116	13	52	434	140
CIVIL.....	2,034	8	3	280	458	51	303	104	32	332	921
ELECTRICAL.....	2,247	31	2	665	350	181	157	12	248	673	278
ENGINEERING SCIENCE.....	452	7	1	119	77	36	41	0	39	112	97
INDUSTRIAL.....	773	4	1	182	143	72	52	19	29	153	261
MECHANICAL.....	1,458	35	0	368	249	113	113	23	155	379	272
METALLURGICAL AND MATERIALS.....	879	144	0	329	80	44	36	0	61	200	65
MINING.....	79	1	0	3	6	6	0	0	3	9	57
NUCLEAR.....	384	198	0	37	38	24	7	7	20	71	20
PETROLEUM.....	52	0	0	6	10	6	4	0	5	22	9
OTHER ENGINEERING.....	844	38	4	219	212	33	177	2	52	195	124
PHYSICAL SCIENCES.....	10,725	1,306	27	1,322	2,186	960	1,151	75	621	4,327	936
ASTRONOMY.....	263	0	0	7	19	19	0	0	50	175	12
ATMOSPHERIC SCIENCES.....	540	22	2	107	32	14	8	10	45	248	84
CHEMISTRY.....	4,199	352	10	303	1,534	418	1,069	47	78	1,660	262
GEOSCIENCES.....	1,069	9	1	139	156	146	6	4	120	490	154
OCEANOGRAPHY.....	561	19	0	122	39	26	10	3	7	220	154
PHYSICS.....	4,093	904	14	644	406	337	58	11	321	1,534	270
MATHEMATICAL SCIENCES.....	2,359	53	6	302	582	370	158	54	51	1,169	196
APPLIED MATHEMATICS.....	528	45	2	134	53	35	17	1	5	261	28
MATHEMATICS.....	1,410	5	2	97	321	285	7	29	38	811	136
STATISTICS.....	421	3	2	71	208	50	134	24	8	97	52
LIFE SCIENCES.....	10,417	127	745	119	6,462	935	5,278	249	91	1,732	1,141
AGRICULTURE.....	2,027	12	554	33	628	204	399	25	19	294	487
BIOCHEMISTRY.....	1,775	56	30	14	1,439	104	1,316	19	15	179	42
BIOLOGY.....	2,077	16	16	9	1,398	212	1,078	108	14	476	148
BOTANY.....	522	18	56	1	154	86	58	10	5	200	88
MICROBIOLOGY.....	1,027	4	39	18	818	74	729	15	5	57	46
PHARMACOLOGY.....	583	0	0	6	505	36	432	37	1	37	34
PHYSIOLOGY.....	600	3	5	26	486	32	445	9	7	46	27
ZOOLOGY.....	903	8	15	5	396	119	276	1	5	253	221
OTHER LIFE SCIENCES.....	903	10	30	7	638	68	545	25	20	150	48
PSYCHOLOGY.....	4,775	3	0	78	3,425	405	2,641	379	32	518	719
SOCIAL SCIENCES.....	5,688	12	150	216	3,170	1,413	1,294	463	22	1,142	976
AGRICULTURAL ECONOMICS.....	224	12	95	1	29	27	2	0	2	14	71
ANTHROPOLOGY.....	784	0	0	6	541	163	357	21	3	185	49
ECONOMICS (EXCEPT AGRICULTURAL).....	1,196	0	12	125	338	285	40	13	2	360	359
GEOGRAPHY.....	261	0	1	9	131	100	7	24	1	67	52
HISTORY AND PHILOSOPHY OF SCIENCE.....	134	0	0	0	91	90	1	0	1	41	1
LINGUISTICS.....	572	0	0	11	343	148	55	140	3	128	87
POLITICAL SCIENCE.....	874	0	0	33	504	370	76	58	10	158	169
SOCIOLOGY.....	1,456	0	37	31	1,035	210	707	118	0	181	172
SOCIOLOGY AND ANTHROPOLOGY.....	187	0	5	0	158	20	49	89	0	8	16

TABLE C-11. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY U.S. GOVERNMENT SOURCES,
BY FIELD OF SCIENCE AND FEDERAL AGENCY, 1971 (CONTINUED)

AREA AND FIELD OF SCIENCE	HEW										UTHER U.S. GOVT.
	TOTAL	AEC	DEPT. OF AGRI.	DEPT. OF DEFENSE	TOTAL HEW	NDEA (NIMH)	PHS (NIMH)	UTHER HEW	NASA	NSF	
TOTAL, ALL FIELDS OF SCIENCE.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ENGINEERING.....	24.7	26.9	5.6	56.0	10.8	14.9	8.8	12.9	51.8	23.4	38.1
AERONAUTICAL.....	1.6	.2	.0	6.5	.2	.6	.0	.0	10.6	1.0	1.6
AGRICULTURAL.....	.2	.0	3.1	.0	.1	.3	.0	.0	.1	.1	.7
CHEMICAL.....	2.4	4.0	1.4	1.8	.3	2.2	1.0	.9	3.1	3.7	3.0
CIVIL.....	4.5	.4	.3	6.0	2.6	1.1	2.6	7.4	1.9	2.4	14.4
ELECTRICAL.....	5.0	1.5	.2	18.4	2.0	3.8	1.4	.9	14.6	5.8	4.3
ENGINEERING SCIENCE.....	1.0	.3	.1	2.6	.4	.8	.4	.0	2.3	1.0	1.5
INDUSTRIAL.....	1.7	.2	.1	3.9	.8	1.5	.5	1.4	1.7	1.3	4.1
MECHANICAL.....	3.2	1.7	.0	7.9	1.4	2.4	1.0	1.6	9.1	3.3	4.2
METALLURGICAL AND MATERIALS.....	1.9	7.0	.0	7.1	.5	.9	.3	.0	3.6	1.7	1.0
MINING.....	.2	.0	.0	.1	.0	.1	.0	.0	.2	.1	.9
NUCLEAR.....	.9	9.6	.0	.8	.2	.5	.1	.5	1.2	.6	.3
PETROLEUM.....	.1	.0	.0	.1	.1	.1	.0	.0	.3	.2	.1
OTHER ENGINEERING.....	1.9	1.9	.4	4.7	1.2	.7	1.5	.1	3.1	1.7	1.9
PHYSICAL SCIENCES.....	23.8	63.6	2.7	28.6	12.3	20.0	10.0	5.4	36.7	37.3	14.6
ASTRONOMY.....	.6	.0	.0	.2	.1	.4	.0	.0	.0	1.5	.2
ATMOSPHERIC SCIENCES.....	1.2	1.1	.2	2.3	.2	.3	.1	.7	2.7	2.1	1.3
CHEMISTRY.....	9.3	17.1	1.0	6.5	8.7	8.7	6.3	3.4	4.6	14.3	4.1
GEOSCIENCES.....	2.4	.4	.1	3.0	.9	3.0	.1	.3	7.1	4.2	2.6
OCEANOGRAPHY.....	1.2	.9	.0	2.6	.2	.5	.1	.2	.4	1.9	2.6
PHYSICS.....	9.1	44.0	1.4	13.9	2.3	7.0	.5	.8	18.9	13.2	4.2
MATHEMATICAL SCIENCES.....	5.2	2.6	.6	6.5	3.3	7.7	1.4	3.9	3.0	10.1	3.1
APPLIED MATHEMATICS.....	1.2	2.2	.2	2.9	.3	.7	.1	.1	.3	2.3	.4
MATHEMATICS.....	3.1	.2	.2	2.1	1.8	5.9	.1	2.1	2.2	7.0	2.1
STATISTICS.....	.9	.1	.2	1.5	1.2	1.0	1.2	1.7	.5	.8	.5
LIFE SCIENCES.....	23.1	6.2	75.8	2.6	36.4	19.5	45.7	17.8	5.4	14.9	17.8
AGRICULTURE.....	4.5	.6	56.4	.7	3.5	4.3	3.5	1.8	1.1	2.5	7.6
BIOCHEMISTRY.....	3.0	2.7	3.1	1.5	.3	2.2	1.4	1.4	.9	1.5	.7
BIOLOGY.....	1.6	.8	1.6	.2	7.9	4.4	9.3	7.7	.8	4.1	2.3
BOTANY.....	1.2	.9	5.7	.0	.9	1.8	.5	.7	.3	1.7	1.4
MICROBIOLOGY.....	2.3	.2	4.0	.4	4.6	1.5	6.3	1.1	.3	.8	.7
PHARMACOLOGY.....	1.3	.0	.0	.1	2.8	.8	3.7	2.6	.1	.3	.5
PHYSIOLOGY.....	1.3	.1	.5	.6	2.7	.7	3.9	.6	.4	.4	.4
ZOOLOGY.....	2.0	.4	1.5	.1	2.2	2.5	2.4	.1	.3	2.2	3.4
OTHER LIFE SCIENCES.....	2.0	.5	3.1	.2	3.6	1.4	4.7	1.0	1.2	1.3	.7
PSYCHOLOGY.....	10.6	.1	.0	1.7	19.3	8.4	22.9	27.1	1.9	4.5	11.2
SOCIAL SCIENCES.....	12.6	.6	15.3	4.7	17.9	29.5	11.2	33.1	1.3	9.8	15.2
AGRICULTURAL ECONOMICS.....	.5	.6	9.7	.0	.2	.6	.0	.0	.1	.1	1.1
ANTHROPOLOGY.....	1.7	.0	.0	.1	3.1	3.4	3.1	1.5	.2	1.6	.8
ECONOMICS (EXCEPT AGRICULTURAL).....	2.7	.0	1.2	2.7	1.9	5.9	.3	.9	.1	3.1	5.6
GEOGRAPHY.....	.6	.0	.1	.2	.7	2.1	.1	1.7	.1	.6	.8
HISTORY AND PHILOSOPHY OF SCIENCE.....	.3	.0	.0	.0	.5	1.9	.0	.0	.1	.4	.0
LINGUISTICS.....	1.3	.0	.0	.2	1.9	3.1	.5	10.0	.2	1.1	1.4
POLITICAL SCIENCE.....	1.9	.0	.0	.7	2.8	4.1	.7	4.1	.6	1.4	2.6
SOCIOLOGY.....	3.2	.0	3.8	.7	5.8	4.7	6.1	8.4	.0	1.6	2.7
SOCIOLOGY AND ANTHROPOLOGY.....	.4	.0	.5	.0	.9	.4	.4	6.4	.0	.1	.2

TABLE C-11. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY U.S. GOVERNMENT SOURCES,
BY FIELD OF SCIENCE AND FEDERAL AGENCY, 1971 (CONTINUED)

AREA AND FIELD OF SCIENCE	TOTAL	AEC	DEPT. OF AGRI.	DEPT. OF DEFENSE	TOTAL HEW	HEW			NASA	NSF	OTHER U.S. GOVT.
						DEPT. OF AGRI.	DEPT. OF DEFENSE	PHS (NIH) (NIMH)			
TOTAL, ALL FIELDS OF SCIENCE.....	100.0	4.6	2.2	10.3	39.3	10.6	25.6	3.1	3.8	25.7	16.2
ENGINEERING.....	100.0	5.0	.5	23.3	17.1	6.4	9.1	1.6	7.9	24.3	21.9
AERONAUTICAL.....	100.0	.7	.0	41.0	4.4	3.7	.7	.0	24.5	15.8	13.7
AGRICULTURAL.....	100.0	.0	26.8	7.7	17.0	12.5	4.5	.0	1.8	12.5	42.0
CIVIL.....	100.0	7.5	1.3	7.7	21.5	9.7	10.6	1.2	4.8	39.8	17.4
ELECTRICAL.....	100.0	.4	.1	13.8	22.5	2.5	14.9	5.1	1.6	16.3	45.3
ENGINEERING SCIENCE.....	100.0	1.4	.1	29.6	15.6	8.1	7.0	.5	11.0	30.0	12.4
INDUSTRIAL.....	100.0	1.5	.2	26.3	17.0	8.0	9.1	.0	8.6	24.8	21.5
MECHANICAL.....	100.0	.5	.1	23.5	18.5	9.3	6.7	2.5	3.8	19.8	33.8
METALLURGICAL AND MATERIALS.....	100.0	2.4	.0	25.2	17.1	7.8	7.8	1.6	10.6	26.0	18.7
MINING.....	100.0	16.4	.0	37.4	9.1	5.0	4.1	.0	6.9	22.8	7.4
NUCLEAR.....	100.0	1.3	.0	3.8	7.6	7.6	.0	.0	3.8	11.4	72.2
PETROLEUM.....	100.0	51.6	.0	9.6	9.9	6.3	1.8	1.8	5.2	18.5	5.2
OTHER ENGINEERING.....	100.0	.0	.0	11.5	19.2	11.5	7.7	.0	5.6	42.3	17.3
TOTAL.....	100.0	4.5	.5	25.9	25.1	3.9	21.0	.2	6.2	23.1	14.7
PERCENT OF TOTAL											
PHYSICAL SCIENCES.....	100.0	12.2	.3	12.3	20.4	9.0	10.7	.7	5.8	40.3	8.7
ASTRONOMY.....	100.0	.0	.0	2.7	7.2	7.2	.0	.0	15.0	66.5	4.6
ATMOSPHERIC SCIENCES.....	100.0	4.1	.4	19.8	5.9	2.6	1.5	1.9	8.3	45.9	15.6
CHEMISTRY.....	100.0	8.4	.2	7.2	36.5	10.0	25.5	1.1	1.9	39.5	6.2
GEOLOGICAL.....	100.0	.8	.1	13.0	14.6	13.7	.6	.4	11.2	45.8	14.4
OCEANOGRAPHY.....	100.0	3.4	.0	21.7	7.0	4.6	1.8	.5	1.2	39.2	27.5
PHYSICS.....	100.0	22.1	.3	15.7	9.9	8.2	1.4	.3	7.8	37.5	6.6
MATHEMATICAL SCIENCES.....	100.0	2.2	.3	12.8	24.7	15.7	6.7	2.3	2.2	49.6	8.3
APPLIED MATHEMATICS.....	100.0	8.5	.4	25.4	10.0	6.6	3.2	.2	.9	49.4	5.3
MATHEMATICS.....	100.0	.4	.1	6.9	22.8	20.2	.3	2.1	2.7	57.5	9.6
STATISTICS.....	100.0	.7	.5	16.9	49.4	11.9	31.8	5.7	1.9	23.0	7.6
LIFE SCIENCES.....	100.0	1.2	7.2	1.1	62.0	9.0	50.7	2.4	.9	16.6	11.0
AGRICULTURE.....	100.0	.6	27.3	1.6	31.0	10.1	19.7	1.2	.9	14.5	24.0
BIOCHEMISTRY.....	100.0	3.2	1.7	.8	81.1	5.9	74.1	1.1	.8	10.1	2.4
BIOLOGY.....	100.0	.8	.8	.4	67.3	10.2	51.9	5.2	.7	22.9	7.1
BOTANY.....	100.0	3.4	10.7	.2	29.5	16.5	11.1	1.9	1.0	38.3	16.9
MICROBIOLOGY.....	100.0	.4	3.8	1.8	79.6	7.2	71.0	1.5	.5	4.4	4.5
PHARMACOLOGY.....	100.0	.0	.0	1.0	86.6	6.2	74.1	6.3	.2	6.3	5.8
PHYSIOLOGY.....	100.0	.5	.8	4.3	81.0	5.3	74.2	1.5	1.2	7.7	4.5
ZOOLOGY.....	100.0	.9	1.7	.6	43.9	13.2	30.6	.1	1.6	28.0	24.5
OTHER LIFE SCIENCES.....	100.0	1.1	3.3	.8	70.7	7.5	60.4	2.8	2.2	16.6	5.3
PSYCHOLOGY.....	100.0	.1	.0	1.6	71.7	8.5	55.3	7.9	.7	10.8	15.1
SOCIAL SCIENCES.....	100.0	.2	2.6	3.8	55.7	24.8	22.7	8.1	.4	20.1	17.2
AGRICULTURAL ECONOMICS.....	100.0	5.4	42.4	.4	12.9	12.1	.9	.0	.9	6.3	31.7
ANTHROPOLOGY.....	100.0	.0	.0	.8	69.0	20.8	45.5	2.7	.4	23.6	6.3
ECONOMICS (EXCEPT AGRICULTURAL).....	100.0	.0	1.0	10.5	23.8	3.3	3.3	1.1	.2	30.1	30.0
GEOGRAPHY.....	100.0	.0	.4	3.4	50.2	38.3	2.7	9.2	.4	25.7	19.9
HISTORY AND PHILOSOPHY OF SCIENCE.....	100.0	.0	.0	.0	67.9	67.2	.7	.0	.7	30.6	.7
LINGUISTICS.....	100.0	.0	.0	1.9	60.0	25.9	9.6	24.5	.5	22.4	15.2
POLITICAL SCIENCE.....	100.0	.0	.0	3.8	57.7	42.3	8.7	6.6	1.1	18.1	19.3
SOCIOLOGY.....	100.0	.0	2.6	2.1	71.1	14.4	48.6	8.1	.0	12.4	11.8
SOCIOLOGY AND ANTHROPOLOGY.....	100.0	.0	2.7	.0	84.5	10.7	26.2	47.6	.0	4.3	8.6

TABLE C-12. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY OTHER U.S. SOURCES, BY FIELD OF SCIENCE, 1971

AREA AND FIELD OF SCIENCE	TOTAL	INSTITUTIONAL SUPPORT	PRIVATE NONPROFIT FOUNDATIONS	INDUSTRY	SELF-SUPPORT	OTHER
TOTAL, ALL FIELDS OF SCIENCE.....	94,738	52,615	3,998	3,709	31,876	2,540
ENGINEERING.....	18,793	8,178	685	2,207	7,267	456
AERONAUTICAL.....	582	329	28	38	177	10
AGRICULTURAL.....	281	192	12	10	59	8
CHEMICAL.....	1,996	875	138	363	556	64
CIVIL.....	2,924	1,203	109	124	1,419	69
ELECTRICAL.....	4,957	2,140	148	460	2,129	80
ENGINEERING SCIENCE.....	729	463	27	33	145	61
INDUSTRIAL.....	1,862	698	46	168	914	16
MECHANICAL.....	2,687	1,127	93	254	1,182	26
METALLURGICAL AND MATERIALS.....	790	347	35	213	179	16
MINING.....	183	94	7	35	25	22
NUCLEAR.....	485	230	5	37	180	63
PETROLEUM.....	93	51	8	22	11	1
OTHER ENGINEERING.....	1,244	429	29	445	321	20
PHYSICAL SCIENCES.....	17,149	12,776	634	532	2,774	433
ASTRONOMY.....	280	168	15	4	82	11
ATMOSPHERIC SCIENCES.....	192	94	10	12	71	5
CHEMISTRY.....	8,131	6,598	370	248	800	115
GEOSCIENCES.....	2,625	1,605	81	99	800	40
OCEANOGRAPHY.....	437	188	22	19	125	83
PHYSICS.....	5,484	4,123	136	150	896	179
MATHEMATICAL SCIENCES.....	9,317	6,235	134	223	2,598	127
APPLIED MATHEMATICS.....	1,564	750	14	171	607	22
MATHEMATICS.....	6,997	5,036	73	43	1,756	89
STATISTICS.....	756	449	47	9	235	16
LIFE SCIENCES.....	18,089	10,474	907	513	5,573	622
AGRICULTURE.....	4,067	2,102	310	233	1,262	160
BIOCHEMISTRY.....	1,278	800	95	18	321	44
BIOLOGY.....	4,643	2,656	137	96	1,561	193
BOTANY.....	1,539	1,084	50	27	357	21
MICROBIOLOGY.....	1,025	650	43	17	245	20
PHARMACOLOGY.....	700	447	74	44	127	8
PHYSIOLOGY.....	690	316	35	17	258	64
ZOOLOGY.....	2,879	1,811	84	44	866	44
OTHER LIFE SCIENCES.....	1,268	608	79	17	495	68
PSYCHOLOGY.....	7,962	4,469	244	101	2,790	358
SOCIAL SCIENCES.....	23,428	10,483	1,394	133	10,874	544
AGRICULTURAL ECONOMICS.....	591	390	49	1	129	22
ANTHROPOLOGY.....	2,586	1,095	103	5	1,333	50
ECONOMICS (EXCEPT AGRICULTURAL).....	5,496	2,701	362	34	2,318	81
GEOGRAPHY.....	1,345	727	68	10	467	43
HISTORY AND PHILOSOPHY OF SCIENCE.....	521	312	28	21	174	174
LINGUISTICS.....	1,790	700	84	15	962	6
POLITICAL SCIENCE.....	6,147	2,302	430	62	3,236	24
SOCIOLOGY.....	4,440	2,078	261	5	1,902	115
SOCIOLOGY AND ANTHROPOLOGY.....	512	178	9	0	321	154

TABLE C-12. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY OTHER U.S. SOURCES, BY FIELD OF SCIENCE, 1971
(CONTINUED)

AREA AND FIELD OF SCIENCE	TOTAL	INSTITUTIONAL SUPPORT	PRIVATE NONPROFIT FOUNDATIONS	INDUSTRY	SELF-SUPPORT	OTHER
TOTAL, ALL FIELDS OF SCIENCE.....	100.0	100.0	100.0	100.0	100.0	100.0
ENGINEERING.....	19.8	15.5	17.1	59.5	22.8	18.0
AERONAUTICAL.....	.6	.6	.7	1.0	.6	.4
AGRICULTURAL.....	.3	.4	.3	.3	.2	.3
CHEMICAL.....	2.1	1.7	3.5	9.8	1.7	2.5
CIVIL.....	3.1	2.3	2.7	3.3	4.5	2.7
ELECTRICAL.....	5.2	4.1	3.7	12.4	6.7	3.1
ENGINEERING SCIENCE.....	.8	.9	.7	.9	.5	2.4
INDUSTRIAL.....	1.9	1.3	1.2	4.5	2.9	.6
MECHANICAL.....	2.8	2.1	2.3	7.0	3.7	1.0
METALLURGICAL AND MATERIALS.....	.8	.7	.9	5.7	.6	.6
MINING.....	.2	.2	.2	.9	.1	.5
NUCLEAR.....	.5	.4	.1	1.0	.5	2.5
PETROLEUM.....	.1	.1	.2	.6	.0	.0
OTHER ENGINEERING.....	1.3	.8	.7	12.0	1.0	.8
PHYSICAL SCIENCES.....	18.1	24.3	15.9	14.3	8.7	17.0
ASTRONOMY.....	.3	.3	.4	.1	.3	.4
ATMOSPHERIC SCIENCES.....	.2	.2	.2	.2	.2	.2
CHEMISTRY.....	8.6	12.5	9.3	6.7	2.5	4.5
GEOLOGICAL SCIENCES.....	2.8	3.1	2.0	2.7	1.6	1.6
OCEANOGRAPHY.....	.5	.4	.6	.5	.4	3.3
PHYSICS.....	5.8	7.8	3.4	4.0	2.8	7.0
MATHEMATICAL SCIENCES.....	9.8	11.9	3.4	6.0	8.2	5.0
APPLIED MATHEMATICS.....	1.7	1.4	.4	4.6	1.9	.9
MATHEMATICS.....	7.4	9.6	1.8	1.2	5.5	3.5
STATISTICS.....	.8	.9	1.2	.2	.7	.6
LIFE SCIENCES.....	19.1	19.9	22.7	13.8	17.5	24.5
AGRICULTURE.....	4.3	4.0	7.8	6.3	4.0	6.3
BIOCHEMISTRY.....	1.3	1.5	2.4	.5	1.0	1.7
BIOLOGY.....	4.9	5.0	3.4	2.6	4.9	7.6
BOTANY.....	1.6	2.1	1.3	.7	1.1	.8
MICROBIOLOGY.....	1.1	1.2	1.1	.5	.9	.8
PHARMACOLOGY.....	.7	.8	1.9	1.2	.4	.3
PHYSIOLOGY.....	.7	.6	.9	.5	.8	2.5
ZOOLOGY.....	3.0	3.4	2.1	1.2	2.8	1.7
OTHER LIFE SCIENCES.....	1.3	1.2	2.0	.5	1.6	2.7
PSYCHOLOGY.....	8.4	8.5	6.1	2.7	8.8	14.1
SOCIAL SCIENCES.....	26.7	19.9	34.9	3.6	34.1	21.4
AGRICULTURAL ECONOMICS.....	.6	.7	1.2	.0	.4	.9
ANTHROPOLOGY.....	2.7	2.1	2.6	.1	4.2	2.0
ECONOMICS (EXCEPT AGRICULTURAL).....	5.8	5.1	9.1	.9	7.3	3.2
GEOGRAPHY.....	1.4	1.4	1.7	.3	1.6	1.7
HISTORY AND PHILOSOPHY OF SCIENCE.....	.5	.6	.7	.0	.5	.2
LINGUISTICS.....	1.9	1.3	2.1	.4	3.0	1.1
POLITICAL SCIENCE.....	6.5	4.4	10.8	1.7	10.2	4.5
SOCIOLOGY.....	4.7	3.9	6.5	.1	6.0	7.6
SOCIOLOGY AND ANTHROPOLOGY.....	.5	.3	.2	.0	1.0	.2

TABLE C-12. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY OTHER U.S. SOURCES, BY FIELD OF SCIENCE, 1971
(CONTINUED)

AREA AND FIELD OF SCIENCE	TOTAL	INSTITUTIONAL SUPPORT	PRIVATE NONPROFIT FOUNDATIONS	INDUSTRY	SELF-SUPPORT	OTHER
TOTAL, ALL FIELDS OF SCIENCE.....	100.0	55.5	4.2	3.9	33.6	2.7
ENGINEERING.....	100.0	43.5	3.6	11.7	38.7	2.4
AERONAUTICAL.....	100.0	56.5	4.8	6.5	30.4	1.7
AGRICULTURAL.....	100.0	68.3	4.3	3.6	21.0	2.8
CHEMICAL.....	100.0	43.8	6.9	18.2	27.9	3.2
CIVIL.....	100.0	41.1	3.7	4.2	48.5	2.4
ELECTRICAL.....	100.0	43.2	3.0	9.3	42.9	1.6
ENGINEERING SCIENCE.....	100.0	63.5	3.7	4.5	19.9	8.4
INDUSTRIAL.....	100.0	37.9	2.5	9.1	49.6	.9
MECHANICAL.....	100.0	43.9	3.5	9.6	44.0	1.0
METALLURGICAL AND MATERIALS.....	100.0	43.9	4.4	27.0	22.7	2.0
MINING.....	100.0	51.4	3.8	19.1	13.7	12.0
NUCLEAR.....	100.0	47.4	1.0	7.6	30.9	13.0
PETROLEUM.....	100.0	54.8	8.6	23.7	11.8	1.1
OTHER ENGINEERING.....	100.0	34.5	2.3	35.8	25.8	1.6
PHYSICAL SCIENCES.....	100.0	74.5	3.7	3.1	16.2	2.5
ASTRONOMY.....	100.0	60.0	5.4	1.4	29.3	3.9
ATMOSPHERIC SCIENCES.....	100.0	49.0	5.2	6.3	37.0	2.9
CHEMISTRY.....	100.0	81.1	4.6	3.1	9.8	1.4
GEOSCIENCES.....	100.0	61.1	3.1	3.8	30.5	1.5
OCEANOGRAPHY.....	100.0	43.0	5.0	4.3	28.6	15.0
PHYSICS.....	100.0	75.2	2.5	2.7	16.3	3.3
MATHEMATICAL SCIENCES.....	100.0	66.9	1.4	2.4	27.9	1.4
APPLIED MATHEMATICS.....	100.0	45.0	.9	10.9	38.8	1.4
MATHEMATICS.....	100.0	72.0	1.0	.6	25.1	1.3
STATISTICS.....	100.0	59.4	6.2	1.2	31.1	2.1
LIFE SCIENCES.....	100.0	57.9	5.0	2.8	30.8	3.4
AGRICULTURE.....	100.0	51.7	7.6	5.7	31.0	3.5
BIOCHEMISTRY.....	100.0	62.6	7.4	1.4	25.1	3.4
BIOLOGY.....	100.0	57.2	3.0	2.1	33.6	4.2
BOTANY.....	100.0	70.4	3.2	1.8	23.2	1.4
MICROBIOLOGY.....	100.0	63.4	4.2	1.7	28.8	2.0
PHARMACOLOGY.....	100.0	63.9	10.6	6.3	18.1	1.1
PHYSIOLOGY.....	100.0	45.8	5.1	2.5	37.4	9.3
ZOOLOGY.....	100.0	62.9	2.9	1.5	31.1	1.5
OTHER LIFE SCIENCES.....	100.0	47.9	6.2	1.3	39.1	5.4
PSYCHOLOGY.....	100.0	56.1	3.1	1.3	35.0	4.5
SOCIAL SCIENCES.....	100.0	44.7	6.0	.6	46.4	2.3
AGRICULTURAL ECONOMICS.....	100.0	66.0	8.3	.2	21.8	3.7
ANTHROPOLOGY.....	100.0	42.3	4.0	.2	51.5	1.9
ECONOMICS (EXCEPT AGRICULTURAL).....	100.0	49.1	6.6	.6	42.2	1.5
GEOGRAPHY.....	100.0	56.1	5.1	.7	37.0	3.2
HISTORY AND PHILOSOPHY OF SCIENCE.....	100.0	58.9	5.4	.2	35.4	1.2
LINGUISTICS.....	100.0	39.1	4.7	.8	53.7	1.6
POLITICAL SCIENCE.....	100.0	37.4	7.0	1.0	52.7	1.9
SOCIOLOGY.....	100.0	46.8	5.9	.1	42.8	4.4
SOCIOLOGY AND ANTHROPOLOGY.....	100.0	34.8	1.8	.0	62.7	.8

Table C-13. Geographic distribution of graduate students in doctorate departments, by enrollment status and source of major support, 1971

Region, division, and State	Total	Full-time graduate students			Part-time graduate students
		Total	Supported by U.S. Government sources	Supported by non-U.S. Government sources	
UNITED STATES, TOTAL	182,001	142,169	45,101	97,068	39,832
NORTHEAST					
New England	53,637	36,856	11,790	25,066	16,781
	15,057	12,375	4,594	7,781	2,682
Maine	212	200	59	141	12
New Hampshire	540	494	169	325	46
Vermont	301	236	67	169	65
Massachusetts	9,712	7,805	2,963	4,842	1,907
Rhode Island	1,356	1,185	481	704	171
Connecticut	2,936	2,455	855	1,600	481
Middle Atlantic	38,580	24,481	7,196	17,285	14,059
New York	23,791	14,553	4,074	10,479	9,238
New Jersey	4,686	2,589	772	1,817	2,097
Pennsylvania	10,103	7,339	2,350	4,989	2,764
NORTH CENTRAL					
East North Central	48,840	41,413	12,516	28,897	7,427
	35,400	29,971	8,814	21,157	5,429
Ohio	7,848	5,857	1,349	4,508	1,991
Indiana	5,233	4,651	1,546	3,105	582
Illinois	9,610	8,421	2,904	5,517	1,189
Michigan	8,504	7,154	1,894	5,260	1,350
Wisconsin	4,205	3,888	1,321	2,567	317
West North Central	13,440	11,442	3,702	7,740	1,998
Minnesota	2,852	2,469	750	1,719	383
Iowa	3,231	2,858	772	2,086	373
Missouri	3,782	3,041	1,040	2,001	741
North Dakota	326	295	97	198	31
South Dakota	357	324	215	109	33
Nebraska	992	752	188	564	240
Kansas	1,900	1,703	640	1,063	197
SOUTH					
South Atlantic	41,379	31,015	9,572	21,443	10,364
	22,481	16,535	5,500	11,035	5,946
Delaware	777	454	147	307	323
Maryland	4,118	2,692	842	1,850	1,426
District of Columbia	4,000	1,780	432	1,348	2,220
Virginia	2,120	1,720	577	1,143	400
West Virginia	809	656	204	452	153
North Carolina	3,377	3,076	1,244	1,832	301
South Carolina	1,039	901	184	717	138
Georgia	2,806	2,378	697	1,681	428
Florida	3,435	2,878	1,173	1,705	557
East South Central	4,925	4,162	1,314	2,848	763
Kentucky	1,233	1,067	329	738	166
Tennessee	2,301	1,876	594	1,282	425
Alabama	815	696	233	463	119
Mississippi	576	523	158	365	53
West South Central	13,973	10,318	2,758	7,560	3,655
Arkansas	478	446	120	326	32
Louisiana	1,471	1,261	362	899	210
Oklahoma	3,838	2,162	599	1,563	1,676
Texas	8,186	6,449	1,677	4,772	1,737

Massachusetts	9,712	7,805	2,963	4,842	1,907
Rhode Island	1,356	1,185	481	704	171
Connecticut	2,936	2,455	855	1,600	481
Middle Atlantic	38,580	24,481	7,196	17,285	14,089
New York	23,791	14,553	4,074	10,479	9,238
New Jersey	4,686	2,589	772	1,817	2,097
Pennsylvania	10,103	7,339	2,350	4,989	2,764
NORTH CENTRAL					
East North Central	48,840	41,413	12,516	28,897	7,427
Ohio	36,400	29,971	8,814	21,157	5,429
Indiana	7,848	5,857	1,349	4,508	1,991
Illinois	5,233	4,651	1,546	3,105	582
Michigan	9,610	8,421	2,904	5,517	1,189
Wisconsin	8,504	7,154	1,894	5,460	1,350
West North Central	4,205	3,888	1,321	2,567	317
Minnesota	13,440	11,442	3,702	7,740	1,988
Iowa	2,852	2,469	750	1,719	383
Missouri	3,231	2,858	772	2,086	373
North Dakota	3,782	3,041	1,040	2,001	741
South Dakota	326	295	97	198	31
Nebraska	357	324	215	109	33
Kansas	992	752	188	564	240
	1,900	1,703	640	1,063	197
SOUTH					
South Atlantic	41,379	31,015	9,572	21,443	10,364
Delaware	22,481	16,535	5,500	11,035	5,946
Maryland	777	454	147	307	323
District of Columbia	4,118	2,692	842	1,850	1,426
Virginia	4,000	1,780	432	1,348	2,220
West Virginia	2,120	1,720	577	1,143	400
North Carolina	809	656	204	452	153
South Carolina	3,377	3,076	1,244	1,832	301
Georgia	1,039	901	184	717	138
Florida	2,806	2,378	697	1,681	428
East South Central	3,435	2,878	1,173	1,705	557
Kentucky	4,925	4,162	1,314	2,848	763
Tennessee	1,233	1,067	329	738	166
Alabama	2,301	1,876	594	1,282	425
Mississippi	815	696	233	463	119
West South Central	576	523	158	365	53
Arkansas	13,973	10,318	2,758	7,560	3,655
Louisiana	478	446	120	326	32
Oklahoma	1,471	1,261	362	899	210
Texas	3,838	2,162	599	1,563	1,676
	8,186	6,449	1,677	4,772	1,737
WEST					
Mountain	38,145	32,865	11,223	21,662	5,260
Idaho	11,929	9,913	3,064	6,849	2,016
Montana	591	568	147	421	23
Wyoming	363	320	111	209	43
Colorado	459	431	117	314	28
New Mexico	3,871	3,402	1,153	2,249	469
Arizona	1,281	857	226	631	424
Utah	3,083	2,367	669	1,698	716
Nevada	2,004	1,741	571	1,170	263
Pacific	277	227	70	157	50
Washington	26,216	22,972	8,159	14,813	3,244
Oregon	3,612	3,132	1,156	1,976	480
California	2,488	2,240	760	1,480	248
Alaska	18,858	16,422	5,773	10,649	2,436
Hawaii	70	67	30	37	3
	1,188	1,111	440	671	77

TABLE C-13. FULL-TIME FACULTY AND POSTDOCTORALS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE, 1971

AREA AND FIELD OF SCIENCE	TOTAL FACULTY		GRADUATE FACULTY		TOTAL POSTDOCTORALS		RECENT DOCTORALS	
	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE.....	57,363	100.0	48,826	85.1	9,250	100.0	6,548	70.8
ENGINEERING.....	11,624	20.3	9,954	85.6	913	9.9	582	63.7
AERONAUTICAL.....	539	.9	465	86.3	47	.5	33	70.2
AGRICULTURAL.....	416	.7	279	67.1	18	.2	6	33.3
CHEMICAL.....	1,076	1.9	991	92.1	110	1.2	61	55.5
CIVIL.....	1,748	3.1	1,526	86.3	95	1.0	52	54.7
ELECTRICAL.....	2,652	4.6	2,261	85.3	155	1.7	107	69.0
ENGINEERING SCIENCE.....	614	1.1	556	90.6	71	.8	38	53.5
INDUSTRIAL.....	766	1.3	628	82.0	19	.2	8	42.1
MECHANICAL.....	2,072	3.6	1,707	82.4	94	1.0	65	69.1
METALLURGICAL AND MATERIALS.....	586	1.0	540	92.2	136	1.5	109	80.1
MINING.....	102	.2	90	88.2	8	.1	6	75.0
NUCLEAR.....	222	.4	214	96.4	25	.3	13	52.0
PETROLEUM.....	52	.1	49	94.2	7	.1	6	85.7
OTHER ENGINEERING.....	759	1.3	648	85.4	128	1.4	78	60.9
PHYSICAL SCIENCES.....	10,919	19.0	9,710	88.9	3,998	43.2	3,085	77.2
ASTRONOMY.....	234	.4	223	95.3	71	.8	35	49.3
ATMOSPHERIC SCIENCES.....	230	.4	200	87.0	72	.8	38	52.6
CHEMISTRY.....	4,116	7.2	3,719	90.4	2,302	24.9	1,888	82.0
GEOSCIENCES.....	1,389	2.4	1,249	89.9	237	2.6	156	65.8
OCEANOGRAPHY.....	429	.7	342	79.7	19	.2	10	52.6
PHYSICS.....	4,521	7.9	3,977	88.0	1,247	14.0	958	73.9
MATHEMATICAL SCIENCES.....	6,000	10.5	4,962	82.7	236	2.6	148	62.7
APPLIED MATHEMATICS.....	452	.8	372	82.3	26	.3	13	50.0
MATHEMATICS.....	5,038	8.8	4,125	81.9	171	1.8	112	65.5
STATISTICS.....	510	.9	465	91.2	39	.4	23	59.0
LIFE SCIENCES.....	15,262	26.6	12,588	82.5	3,642	39.1	2,462	67.6
AGRICULTURE.....	3,986	7.0	2,986	74.7	334	3.6	228	68.3
BIOCHEMISTRY.....	1,579	2.8	1,398	88.5	1,025	11.1	774	75.5
BIOLOGY.....	2,806	4.9	2,488	88.7	900	9.7	584	64.9
BOTANY.....	1,124	2.0	968	86.1	134	1.4	96	71.6
MICROBIOLOGY.....	966	1.7	864	89.4	293	3.2	190	64.8
PHARMACOLOGY.....	973	1.7	777	79.9	287	3.1	156	54.4
PHYSIOLOGY.....	841	1.5	750	89.2	227	2.5	152	67.0
ZOOLOGY.....	1,328	2.3	1,140	85.8	186	2.0	122	65.6
OTHER LIFE SCIENCES.....	1,649	2.9	1,217	73.8	256	2.8	160	62.5
PSYCHOLOGY.....	3,603	6.3	3,260	90.5	257	2.8	185	72.0
SOCIAL SCIENCES.....	9,955	17.4	8,352	83.9	204	2.2	86	42.2
AGRICULTURAL ECONOMICS.....	478	.8	358	74.9	2	.0	0	.0
ANTHROPOLOGY.....	910	1.6	788	86.6	31	.3	11	35.5
ECONOMICS (EXCEPT AGRICULTURAL).....	2,589	4.5	2,105	81.3	48	.5	19	39.6
GEOGRAPHY.....	511	.9	455	89.0	21	.2	13	61.9
HISTORY AND PHILOSOPHY OF SCIENCE.....	299	.5	252	84.3	14	.2	9	64.3
LINGUISTICS.....	654	1.1	581	88.8	21	.2	12	57.1
POLITICAL SCIENCE.....	2,288	4.0	2,073	90.6	15	.2	2	13.3
SOCIOLOGY.....	1,989	3.5	1,555	78.2	51	.6	20	39.2
SOCIOLOGY AND ANTHROPOLOGY.....	237	.4	185	78.1	1	.0	0	.0

TABLE C-15. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,
BY AREA OF SCIENCE, CITIZENSHIP, AND ENROLLMENT STATUS, 1969-71

AREA OF SCIENCE	1969	NUMBER 1970	1971	PERCENT CHANGE 1970-71	
				1969-70	1970-71
ALL GRADUATE STUDENTS					
TOTAL.....	171,571	170,295	165,303	-0.7	-2.9
ENGINEERING.....	48,422	47,586	44,869	-1.7	-5.7
PHYSICAL SCIENCES.....	33,357	32,199	30,411	-3.5	-5.6
MATHEMATICAL SCIENCES.....	14,865	14,905	14,041	.3	-5.8
LIFE SCIENCES.....	27,580	27,912	27,607	1.2	-1.1
PSYCHOLOGY.....	12,713	12,902	13,444	1.5	4.2
SOCIAL SCIENCES.....	34,634	34,791	34,931	.5	.4
U. S. CITIZENS.....					
ENGINEERING.....	142,199	139,362	134,970	-2.0	-3.2
PHYSICAL SCIENCES.....	36,249	34,582	32,118	-4.6	-7.1
MATHEMATICAL SCIENCES.....	27,574	26,228	24,583	-4.9	-6.3
LIFE SCIENCES.....	12,659	12,564	11,706	-.8	-6.8
PSYCHOLOGY.....	23,635	23,912	23,735	1.2	-.7
SOCIAL SCIENCES.....	12,185	12,409	12,918	1.8	4.1
FOREIGN STUDENTS.....					
ENGINEERING.....	29,372	30,933	30,333	5.3	-1.9
PHYSICAL SCIENCES.....	12,173	13,004	12,751	6.8	-1.9
MATHEMATICAL SCIENCES.....	5,783	5,971	5,828	3.3	-2.4
LIFE SCIENCES.....	2,206	2,341	2,335	6.1	-.3
PSYCHOLOGY.....	3,945	4,000	3,872	1.4	-3.2
SOCIAL SCIENCES.....	528	493	526	-6.6	6.7
FULL-TIME STUDENTS					
TOTAL.....	131,935	131,902	129,939	0	-1.5
ENGINEERING.....	28,793	29,534	28,945	2.6	-2.0
PHYSICAL SCIENCES.....	29,253	28,264	27,056	-3.4	-4.3
MATHEMATICAL SCIENCES.....	11,349	11,500	11,008	1.3	-4.3
LIFE SCIENCES.....	24,645	24,739	24,752	.4	.1
PSYCHOLOGY.....	11,142	11,272	11,817	1.2	4.8
SOCIAL SCIENCES.....	26,753	26,593	26,361	-.6	-.9
U. S. CITIZENS.....					
ENGINEERING.....	105,768	104,724	103,400	-1.0	-1.3
PHYSICAL SCIENCES.....	18,617	18,841	18,581	1.2	-1.4
MATHEMATICAL SCIENCES.....	23,719	22,612	21,560	-4.7	-4.7
LIFE SCIENCES.....	9,510	9,540	8,840	.3	-5.4
PSYCHOLOGY.....	20,888	20,980	21,056	.4	.4
SOCIAL SCIENCES.....	10,660	10,818	11,359	1.5	4.8
FOREIGN STUDENTS.....					
ENGINEERING.....	22,574	22,133	22,024	-2.0	-.5
PHYSICAL SCIENCES.....	26,167	27,178	26,539	3.9	-2.4
MATHEMATICAL SCIENCES.....	10,176	10,693	10,364	5.1	-3.1
LIFE SCIENCES.....	5,534	5,652	5,496	2.1	-2.8
PSYCHOLOGY.....	2,039	2,160	2,168	5.9	.4
SOCIAL SCIENCES.....	3,757	3,759	3,696	.1	-1.7
PART-TIME STUDENTS					
TOTAL.....	482	454	478	-5.8	5.3
ENGINEERING.....	4,179	4,460	4,337	6.7	-2.8
U. S. CITIZENS.....					
ENGINEERING.....	39,636	38,393	35,364	-3.1	-7.9
PHYSICAL SCIENCES.....	19,629	18,052	15,924	-8.0	-11.8
MATHEMATICAL SCIENCES.....	4,104	3,935	3,355	-4.1	-14.7
LIFE SCIENCES.....	3,516	3,405	3,033	-3.2	-10.9
PSYCHOLOGY.....	2,935	3,173	2,855	8.1	-10.0
SOCIAL SCIENCES.....	1,571	1,630	1,627	3.8	-.2
FOREIGN STUDENTS.....					
ENGINEERING.....	7,881	8,198	8,570	4.0	4.5
PHYSICAL SCIENCES.....	36,431	34,638	31,570	-4.9	-8.9
MATHEMATICAL SCIENCES.....	17,632	15,741	13,537	-10.7	-14.0
LIFE SCIENCES.....	3,855	3,616	3,023	-6.2	-16.4
PSYCHOLOGY.....	3,349	3,224	2,866	-3.7	-11.1
SOCIAL SCIENCES.....	2,747	2,932	2,579	6.7	-8.6
FULL-TIME STUDENTS					
ENGINEERING.....	1,525	1,591	1,579	4.3	-.8
PHYSICAL SCIENCES.....	7,323	7,534	7,886	2.9	4.7
FOREIGN STUDENTS.....	3,205	3,755	3,794	17.2	1.0

FOREIGN STUDENTS.....				
ENGINEERING.....	29,372	30,433	30,333	5.3
PHYSICAL SCIENCES.....	12,173	13,004	12,751	6.8
MATHEMATICAL SCIENCES.....	5,783	5,871	5,828	3.3
LIFE SCIENCES.....	2,206	2,341	2,335	6.1
PSYCHOLOGY.....	3,945	4,000	3,872	-3.5
SOCIAL SCIENCES.....	4,528	4,933	5,021	1.4
	4,737	5,124	5,021	6.7
				-2.0
FULL-TIME STUDENTS				
TOTAL.....	131,935	131,902	129,939	1.5
ENGINEERING.....	28,793	29,534	28,945	2.6
PHYSICAL SCIENCES.....	29,253	28,264	27,056	-4.3
MATHEMATICAL SCIENCES.....	11,349	11,500	11,008	-4.3
LIFE SCIENCES.....	24,645	24,739	24,752	1.3
PSYCHOLOGY.....	11,142	11,272	11,817	4.1
SOCIAL SCIENCES.....	26,753	26,593	26,361	1.2
				-2.9
U. S. CITIZENS.....	105,768	104,724	103,400	-1.3
ENGINEERING.....	18,617	18,841	18,581	1.2
PHYSICAL SCIENCES.....	23,719	22,612	21,560	-4.7
MATHEMATICAL SCIENCES.....	9,310	9,340	8,840	-5.4
LIFE SCIENCES.....	20,888	20,980	21,056	4.4
PSYCHOLOGY.....	10,660	10,818	11,339	4.8
SOCIAL SCIENCES.....	22,574	22,133	22,024	-0.5
				-2.4
FOREIGN STUDENTS.....	26,167	27,178	26,539	3.9
ENGINEERING.....	10,176	10,693	10,364	3.1
PHYSICAL SCIENCES.....	5,534	5,652	5,496	2.1
MATHEMATICAL SCIENCES.....	2,039	2,160	2,168	5.9
LIFE SCIENCES.....	3,757	3,759	3,696	1.7
PSYCHOLOGY.....	4,82	454	478	5.3
SOCIAL SCIENCES.....	4,179	4,460	4,337	-2.8
PART-TIME STUDENTS				
TOTAL.....	39,636	38,393	35,364	-7.9
ENGINEERING.....	19,629	18,052	15,924	-11.8
PHYSICAL SCIENCES.....	4,104	3,935	3,255	-14.7
MATHEMATICAL SCIENCES.....	3,516	3,405	3,033	-10.9
LIFE SCIENCES.....	2,935	3,173	2,855	-10.0
PSYCHOLOGY.....	1,571	1,630	1,627	-0.2
SOCIAL SCIENCES.....	7,481	8,198	8,570	4.5
U. S. CITIZENS.....	36,431	34,638	31,570	-8.9
ENGINEERING.....	17,632	15,741	15,537	-13.0
PHYSICAL SCIENCES.....	3,855	3,616	3,023	-16.4
MATHEMATICAL SCIENCES.....	3,349	3,224	2,866	-11.1
LIFE SCIENCES.....	2,747	2,932	2,679	-8.6
PSYCHOLOGY.....	1,525	1,591	1,579	-0.8
SOCIAL SCIENCES.....	7,323	7,534	7,886	4.7
FOREIGN STUDENTS.....	3,205	3,755	3,794	1.0
ENGINEERING.....	1,997	2,311	2,387	3.3
PHYSICAL SCIENCES.....	249	314	332	8.1
MATHEMATICAL SCIENCES.....	167	181	167	-7.7
LIFE SCIENCES.....	184	241	176	-27.0
PSYCHOLOGY.....	46	39	48	8.7
SOCIAL SCIENCES.....	558	664	684	3.0

* PERCENT CHANGE IS NOT SHOWN WHEN RATE IS 50 OR LESS.
 0 LESS THAN 0.05 PERCENT CHANGE.

TABLE C-16. GRADUATE STUDENTS IN DOCTORATE DEGREE PROGRAMS BY AREA OF SCIENCE, LEVEL OF STUDY, AND ENROLLMENT STATUS, 1969-71

AREA OF SCIENCE	1969	NUMBER 1970	1971	PERCENT CHANGE 1970-71	
				1969-70	1970-71
ALL GRADUATE STUDENTS					
TOTAL.....	171,571	170,295	165,303	-0.7	-2.9
ENGINEERING.....	40,422	47,586	44,869	-1.7	-5.7
PHYSICAL SCIENCES.....	33,357	32,199	30,411	-3.5	-5.6
MATHEMATICAL SCIENCES.....	14,865	14,905	14,041	1.3	-5.8
LIFE SCIENCES.....	27,580	27,912	27,607	1.2	-1.1
PSYCHOLOGY.....	12,713	12,902	13,444	1.5	4.2
SOCIAL SCIENCES.....	34,634	34,791	34,931	.5	.4
FIRST YEAR, TOTAL.....	59,933	57,584	53,026	-3.9	-7.9
ENGINEERING.....	21,001	20,430	18,410	-2.7	-9.9
PHYSICAL SCIENCES.....	9,126	8,045	7,386	-11.8	-8.2
MATHEMATICAL SCIENCES.....	5,383	5,167	4,745	-4.0	-8.2
LIFE SCIENCES.....	8,319	8,139	7,724	-2.2	-5.1
PSYCHOLOGY.....	3,779	3,763	3,552	-.4	-5.6
SOCIAL SCIENCES.....	12,325	12,040	11,209	-2.3	-6.9
BEYOND FIRST YEAR, TOTAL.....	111,638	112,711	112,277	1.0	-.4
ENGINEERING.....	27,421	27,156	26,459	-1.0	-2.6
PHYSICAL SCIENCES.....	24,231	24,158	23,025	-.3	-4.7
MATHEMATICAL SCIENCES.....	9,482	9,738	9,286	2.7	-4.5
LIFE SCIENCES.....	19,261	19,773	19,883	2.7	.6
PSYCHOLOGY.....	8,934	9,139	9,892	2.3	8.2
SOCIAL SCIENCES.....	22,309	22,751	23,722	2.0	4.3
FULL-TIME STUDENTS					
TOTAL.....	131,935	131,902	129,939	0	-1.5
ENGINEERING.....	28,793	29,534	28,945	2.6	-2.0
PHYSICAL SCIENCES.....	29,253	28,264	27,056	-3.4	-4.3
MATHEMATICAL SCIENCES.....	11,349	11,500	11,008	1.3	-4.3
LIFE SCIENCES.....	24,645	24,739	24,752	.4	.1
PSYCHOLOGY.....	11,142	11,272	11,817	1.2	4.8
SOCIAL SCIENCES.....	26,753	26,593	26,361	-.6	-.9
FIRST YEAR, TOTAL.....	43,144	42,199	40,069	-2.2	-5.0
ENGINEERING.....	11,189	11,710	11,154	4.7	-4.7
PHYSICAL SCIENCES.....	7,795	7,066	6,609	-9.4	-6.5
MATHEMATICAL SCIENCES.....	4,060	3,944	3,572	-2.9	-9.4
LIFE SCIENCES.....	7,487	7,297	7,090	-2.5	-2.8
PSYCHOLOGY.....	3,308	3,194	3,200	-3.4	.2
SOCIAL SCIENCES.....	9,305	8,988	8,444	-3.4	-6.1
BEYOND FIRST YEAR, TOTAL.....	88,791	89,703	89,870	1.0	.2
ENGINEERING.....	17,604	17,824	17,791	1.2	-.2
PHYSICAL SCIENCES.....	21,458	21,198	20,447	-1.2	-3.5
MATHEMATICAL SCIENCES.....	7,289	7,556	7,436	3.7	-1.6
LIFE SCIENCES.....	17,158	17,442	17,662	1.7	1.3
PSYCHOLOGY.....	7,834	8,078	8,617	3.1	6.7
SOCIAL SCIENCES.....	17,448	17,605	17,917	.9	1.8
PART-TIME STUDENTS					
TOTAL.....	39,636	38,393	35,364	-3.1	-7.9
ENGINEERING.....	19,429	18,052	15,924	-8.0	-11.8
PHYSICAL SCIENCES.....	4,104	3,935	3,355	-4.1	-14.7
MATHEMATICAL SCIENCES.....	3,516	3,403	3,033	-3.2	-10.9
LIFE SCIENCES.....	2,935	3,173	2,855	8.1	-10.0
PSYCHOLOGY.....	1,571	1,630	1,627	3.8	-.2
SOCIAL SCIENCES.....	7,881	8,198	8,570	4.0	4.5
FIRST YEAR, TOTAL.....	16,789	15,385	12,937	-8.4	-15.8
ENGINEERING.....	9,812	8,720	7,256	-11.1	-16.8
PHYSICAL SCIENCES.....	1,331	979	777	-26.4	-20.6
MATHEMATICAL SCIENCES.....	1,323	1,223	1,173	-.6	-4.1
LIFE SCIENCES.....	832	842	634	1.2	-24.7
PSYCHOLOGY.....	471	569	352	20.8	-38.1
SOCIAL SCIENCES.....	3,020	3,052	2,765	1.1	-9.4
BEYOND FIRST YEAR, TOTAL.....	22,847	23,008	22,407	.7	-2.6

	2,773	2,956	2,578	6.6	-12.8
MATHEMATICAL SCIENCES.....	2,183	2,182	1,880	5.6	-18.8
MATHEMATICAL SCIENCES.....	5,383	6,085	7,586	-11.8	-8.2
LIFE SCIENCES.....	8,319	8,139	7,724	-4.0	-5.1
PSYCHOLOGY.....	3,779	3,763	3,552	-2.2	-5.6
SOCIAL SCIENCES.....	12,325	12,040	11,209	-2.3	-6.9
BEYOND FIRST YEAR, TOTAL.....	111,638	112,711	112,277	1.0	-4.4
ENGINEERING.....	27,421	27,156	26,459	-1.0	-2.6
PHYSICAL SCIENCES.....	24,231	24,154	23,025	-2.3	-4.7
MATHEMATICAL SCIENCES.....	9,482	9,738	9,296	2.7	-4.5
LIFE SCIENCES.....	19,261	19,773	19,883	2.7	8.2
PSYCHOLOGY.....	8,934	9,139	8,892	2.3	4.3
SOCIAL SCIENCES.....	22,309	22,751	23,722	2.0	-1.5
TOTAL.....	131,935	131,902	129,939	0	-2.0
ENGINEERING.....	28,793	29,534	28,945	2.6	-4.3
PHYSICAL SCIENCES.....	29,253	28,264	27,056	-3.4	-4.3
MATHEMATICAL SCIENCES.....	11,349	11,500	11,008	1.3	4.1
LIFE SCIENCES.....	24,645	24,739	24,752	0.4	4.8
PSYCHOLOGY.....	11,142	11,272	11,817	1.2	-5.9
SOCIAL SCIENCES.....	26,753	26,593	26,361	-0.6	-5.0
FIRST YEAR, TOTAL.....	43,144	42,199	40,069	-2.2	-4.7
ENGINEERING.....	11,189	11,710	11,154	4.7	-6.5
PHYSICAL SCIENCES.....	7,795	7,066	6,609	-0.4	-9.4
MATHEMATICAL SCIENCES.....	4,060	3,944	3,572	-2.9	-2.8
LIFE SCIENCES.....	7,287	7,297	7,090	-0.5	-2.2
PSYCHOLOGY.....	3,308	3,194	3,200	0.2	-3.4
SOCIAL SCIENCES.....	9,305	8,988	8,444	-3.4	-6.1
BEYOND FIRST YEAR, TOTAL.....	88,791	89,703	89,870	1.0	1.8
ENGINEERING.....	17,604	17,824	17,791	1.2	-3.5
PHYSICAL SCIENCES.....	21,458	21,198	20,447	-1.2	-1.6
MATHEMATICAL SCIENCES.....	7,289	7,556	7,436	3.7	1.3
LIFE SCIENCES.....	17,158	17,442	17,662	1.7	3.1
PSYCHOLOGY.....	7,834	8,078	8,617	6.7	5.9
SOCIAL SCIENCES.....	17,448	17,605	17,917	1.8	-7.5
TOTAL.....	39,636	38,393	35,364	-3.1	-11.6
ENGINEERING.....	19,629	18,052	15,924	-8.0	-14.7
PHYSICAL SCIENCES.....	4,104	3,935	3,355	-6.1	-10.9
MATHEMATICAL SCIENCES.....	2,935	3,405	3,033	-3.2	-10.0
LIFE SCIENCES.....	2,935	3,173	2,055	8.1	-2.2
PSYCHOLOGY.....	1,571	1,630	1,627	3.8	4.5
SOCIAL SCIENCES.....	7,881	8,198	8,570	4.0	-15.8
FIRST YEAR, TOTAL.....	16,789	15,385	12,957	-8.4	-26.8
ENGINEERING.....	9,812	8,720	7,256	-11.1	-4.1
PHYSICAL SCIENCES.....	1,331	979	777	-26.4	-24.7
MATHEMATICAL SCIENCES.....	832	1,223	1,173	-7.6	-38.1
LIFE SCIENCES.....	471	842	634	1.2	20.8
PSYCHOLOGY.....	3,020	569	352	1.1	-9.4
SOCIAL SCIENCES.....	3,020	3,052	2,765	0.7	-7.1
BEYOND FIRST YEAR, TOTAL.....	22,847	23,008	22,407	0.7	-12.8
ENGINEERING.....	9,817	9,332	8,668	-4.9	-14.8
PHYSICAL SCIENCES.....	2,775	2,956	2,578	6.6	-2.8
MATHEMATICAL SCIENCES.....	2,193	2,182	1,860	-5	-4.7
LIFE SCIENCES.....	2,103	2,331	2,221	10.8	1.275
PSYCHOLOGY.....	1,100	1,061	1,275	-3.5	20.2
SOCIAL SCIENCES.....	4,861	5,466	5,805	12.8	12.8

□ LESS THAN 0.05 PERCENT CHANGE.

TABLE C-17A. FULL-TIME GRADUATE STUDENTS IN SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
SOURCE OF MAJOR SUPPORT					
ALL SOURCES OF MAJOR SUPPORT, TOTAL.....	131,935	131,902	129,939	□	-1.5
U.S. SOURCES, TOTAL.....	129,864	129,757	127,816	-1.1	-1.5
U.S. GOVERNMENT.....	48,373	48,640	47,263	-5.6	-9.6
INSTITUTIONAL SUPPORT.....	47,445	48,915	48,298	3.1	-1.3
SELF-SUPPORT.....	24,123	25,155	28,801	4.3	14.5
ALL OTHER U.S. SOURCES.....	9,923	10,047	9,454	1.2	-5.9
FOREIGN SOURCES, TOTAL.....	2,071	2,145	2,123	3.6	-1.0
U.S. CITIZENS.....	105,768	104,724	103,400	-1.0	-1.3
U.S. SOURCES, TOTAL.....	105,730	104,677	103,361	-1.0	-1.3
U.S. GOVERNMENT.....	41,898	38,993	35,014	-6.9	-10.2
INSTITUTIONAL SUPPORT.....	36,902	38,101	38,286	3.2	4.4
SELF-SUPPORT.....	19,421	20,002	22,859	3.0	14.3
ALL OTHER U.S. SOURCES.....	7,509	7,581	7,220	1.0	-4.8
FOREIGN SOURCES, TOTAL.....	38	47	39	23.7	-16.7
FOREIGN STUDENTS.....	26,167	27,178	26,539	3.9	-2.4
U.S. SOURCES, TOTAL.....	24,134	25,080	24,455	3.9	-2.5
U.S. GOVERNMENT.....	6,475	6,647	6,249	2.7	-6.0
INSTITUTIONAL SUPPORT.....	10,543	10,814	10,030	2.6	-7.2
SELF-SUPPORT.....	4,702	5,153	5,942	9.6	15.3
ALL OTHER U.S. SOURCES.....	2,414	2,466	2,234	2.2	-9.4
FOREIGN SOURCES, TOTAL.....	2,033	2,098	2,084	3.2	-0.7
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	38,972	36,453	32,988	-6.5	-9.5
U.S. SOURCES, TOTAL.....	37,778	35,198	31,694	-6.8	-10.0
U.S. GOVERNMENT.....	26,671	24,070	20,959	-9.8	-12.9
INSTITUTIONAL SUPPORT.....	6,777	6,740	6,628	-0.5	-1.7
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	4,330	4,388	4,107	1.3	-6.4
FOREIGN SOURCES, TOTAL.....	1,194	1,255	1,294	5.1	3.1
U.S. CITIZENS.....	34,011	31,376	28,261	-7.7	-9.9
U.S. SOURCES, TOTAL.....	33,976	31,329	28,222	-7.8	-9.9
U.S. GOVERNMENT.....	25,938	23,257	20,166	-10.2	-13.4
INSTITUTIONAL SUPPORT.....	4,916	4,905	5,021	-0.2	2.4
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	3,122	3,127	3,035	0.2	-2.9
FOREIGN SOURCES, TOTAL.....	35	47	39	32.9	-17.0
FOREIGN STUDENTS.....	4,961	5,077	4,727	2.3	-6.9
U.S. SOURCES, TOTAL.....	3,802	3,869	3,472	1.8	-10.3
U.S. GOVERNMENT.....	733	773	793	5.5	2.6
INSTITUTIONAL SUPPORT.....	1,861	1,835	1,607	-1.4	-12.4
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	1,208	1,261	1,072	4.4	-15.0
FOREIGN SOURCES, TOTAL.....	1,159	1,208	1,255	4.2	3.9
RESEARCH ASSISTANTS, TOTAL.....	28,506	28,500	27,249	□	-4.4
U.S. SOURCES, TOTAL.....	28,456	28,451	27,206	□	-4.4
U.S. GOVERNMENT.....	18,641	18,451	17,519	-1.0	-5.1
INSTITUTIONAL SUPPORT.....	7,700	8,034	7,598	4.3	-5.6
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	2,115	1,966	2,099	-7.0	6.8
FOREIGN SOURCES, TOTAL.....	50	49	43	2.0	-16.0
U.S. CITIZENS.....	20,094	19,977	19,541	-0.6	-2.2
U.S. SOURCES, TOTAL.....	20,092	19,977	19,541	-0.6	-2.2
U.S. GOVERNMENT.....	13,238	12,876	12,359	-2.7	-4.0
INSTITUTIONAL SUPPORT.....	5,388	5,722	5,643	6.2	-1.4
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	1,466	1,379	1,539	-5.9	11.6
FOREIGN SOURCES, TOTAL.....	2	0	0	---	---
FOREIGN STUDENTS.....	8,412	8,523	7,708	1.3	-9.6
U.S. SOURCES, TOTAL.....	8,364	8,474	7,665	1.3	-9.5
U.S. GOVERNMENT.....	5,403	5,575	5,160	3.2	-7.4
INSTITUTIONAL SUPPORT.....	2,312	2,312	1,945	0	-15.9
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	649	587	560	-9.6	-4.6
FOREIGN SOURCES, TOTAL.....	48	49	43	2.1	-16.0

TABLE C-17A. FULL-TIME GRADUATE STUDENTS IN SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
TEACHING ASSISTANTSHIPS, TOTAL.....					
U.S. SOURCES, TOTAL.....	31,221	32,616	32,335	4.5	-0.9
U.S. GOVERNMENT.....	31,221	32,616	32,335	4.5	-0.9
INSTITUTIONAL SUPPORT.....	295	336	384	13.9	14.3
SELF-SUPPORT.....	30,740	32,015	31,729	4.0	-0.9
ALL OTHER U.S. SOURCES.....	0	0	0	---	---
FOREIGN SOURCES, TOTAL.....	136	265	222	94.9	-16.2
U.S. CITIZENS.....	0	0	0	---	---
U.S. SOURCES, TOTAL.....	25,079	26,124	26,143	4.2	.1
U.S. GOVERNMENT.....	25,079	26,124	26,143	4.2	.1
INSTITUTIONAL SUPPORT.....	222	245	319	10.4	30.2
SELF-SUPPORT.....	24,749	25,656	25,637	3.7	-0.1
ALL OTHER U.S. SOURCES.....	0	0	0	---	---
FOREIGN SOURCES, TOTAL.....	104	223	187	106.5	-16.1
FOREIGN STUDENTS.....	0	0	0	---	---
U.S. SOURCES, TOTAL.....	6,142	6,492	6,192	5.7	-4.6
U.S. GOVERNMENT.....	6,142	6,492	6,192	5.7	-4.6
INSTITUTIONAL SUPPORT.....	73	91	65	24.7	-28.6
SELF-SUPPORT.....	6,041	6,359	6,092	5.3	-4.2
ALL OTHER U.S. SOURCES.....	0	0	0	---	---
FOREIGN SOURCES, TOTAL.....	28	42	35	50.0	-16.7
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	33,236	34,333	37,367	3.3	8.8
U.S. SOURCES, TOTAL.....	32,409	33,492	36,581	3.3	9.2
U.S. GOVERNMENT.....	32,409	33,492	36,581	3.3	9.2
INSTITUTIONAL SUPPORT.....	2,766	2,783	2,401	.6	-13.7
SELF-SUPPORT.....	2,118	2,126	2,353	.4	10.7
ALL OTHER U.S. SOURCES.....	24,123	25,155	28,801	4.3	14.5
FOREIGN SOURCES, TOTAL.....	827	3,428	786	2.6	-11.7
U.S. CITIZENS.....	26,584	27,247	29,455	2.5	8.1
U.S. SOURCES, TOTAL.....	26,583	27,247	29,455	2.5	8.1
U.S. GOVERNMENT.....	2,500	2,575	2,170	3.0	-15.7
INSTITUTIONAL SUPPORT.....	1,849	1,818	1,967	-1.7	8.2
SELF-SUPPORT.....	19,421	20,002	22,859	3.0	14.3
ALL OTHER U.S. SOURCES.....	2,813	2,852	2,459	1.4	-13.8
FOREIGN SOURCES, TOTAL.....	1	0	0	---	---
FOREIGN STUDENTS.....	6,652	7,086	7,912	6.5	11.7
U.S. SOURCES, TOTAL.....	5,826	6,245	7,126	7.2	14.1
U.S. GOVERNMENT.....	266	208	231	-21.8	11.1
INSTITUTIONAL SUPPORT.....	329	308	386	-6.4	25.3
SELF-SUPPORT.....	4,702	5,153	5,942	9.6	15.3
ALL OTHER U.S. SOURCES.....	529	576	567	8.9	-1.5
FOREIGN SOURCES, TOTAL.....	826	841	786	1.8	-6.5

* PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.
 □ LESS THAN 0.05 PERCENT CHANGE.

TABLE C-17B. FULL-TIME GRADUATE STUDENTS IN ENGINEERING DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
ALL SOURCES OF MAJOR SUPPORT, TOTAL.....	28,793	29,534	28,945	2.6	-2.0
U.S. SOURCES, TOTAL.....	27,869	28,664	28,055	2.9	-2.1
U.S. GOVERNMENT.....	11,527	11,412	10,314	-1.0	-9.6
INSTITUTIONAL SUPPORT.....	7,533	7,898	7,704	4.8	-2.5
SELF-SUPPORT.....	5,023	5,873	6,882	16.7	17.2
ALL OTHER U.S. SOURCES.....	3,786	3,681	3,155	-8.1	-9.4
FOREIGN SOURCES, TOTAL.....	924	870	890	-5.8	2.3
U.S. CITIZENS.....	18,617	18,841	18,581	1.2	-1.4
U.S. SOURCES, TOTAL.....	18,612	18,828	18,567	1.2	-1.4
U.S. GOVERNMENT.....	8,711	8,345	7,532	-4.2	-9.7
INSTITUTIONAL SUPPORT.....	4,219	4,560	4,742	8.1	4.0
SELF-SUPPORT.....	2,816	3,251	3,879	15.4	19.3
ALL OTHER U.S. SOURCES.....	2,866	2,672	2,414	-6.8	-9.7
FOREIGN SOURCES, TOTAL.....	5	13	14	#	#
FOREIGN STUDENTS.....	10,176	10,693	10,364	5.1	-3.1
U.S. SOURCES, TOTAL.....	9,257	9,836	9,488	6.3	-3.5
U.S. GOVERNMENT.....	2,816	3,067	2,782	8.9	-9.3
INSTITUTIONAL SUPPORT.....	3,314	3,338	2,962	.7	-11.3
SELF-SUPPORT.....	2,207	2,622	3,003	18.8	14.5
ALL OTHER U.S. SOURCES.....	920	809	741	-12.1	-8.4
FOREIGN SOURCES, TOTAL.....	919	857	876	-6.7	2.2
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	7,571	7,083	6,334	-6.4	-10.6
U.S. SOURCES, TOTAL.....	7,165	6,695	5,913	-6.6	-11.7
U.S. GOVERNMENT.....	4,645	4,196	3,509	-9.7	-16.4
INSTITUTIONAL SUPPORT.....	1,074	1,157	7.7	7.7	-4.1
SELF-SUPPORT.....	0	0	0	--	--
ALL OTHER U.S. SOURCES.....	1,446	1,342	1,294	-7.2	-3.6
FOREIGN SOURCES, TOTAL.....	406	388	421	-4.4	8.5
U.S. CITIZENS.....	6,171	5,736	5,120	-7.0	-10.7
U.S. SOURCES, TOTAL.....	6,166	5,723	5,106	-7.2	-10.8
U.S. GOVERNMENT.....	4,469	4,009	3,366	-10.3	-16.0
INSTITUTIONAL SUPPORT.....	563	642	694	14.0	8.1
SELF-SUPPORT.....	0	0	0	--	--
ALL OTHER U.S. SOURCES.....	1,134	1,072	1,046	-5.5	-2.4
FOREIGN SOURCES, TOTAL.....	5	13	14	#	#
FOREIGN STUDENTS.....	1,400	1,347	1,214	-3.8	-9.9
U.S. SOURCES, TOTAL.....	999	972	807	-2.7	-17.0
U.S. GOVERNMENT.....	176	187	143	6.3	-23.5
INSTITUTIONAL SUPPORT.....	511	515	416	.8	-19.2
SELF-SUPPORT.....	0	0	0	--	--
ALL OTHER U.S. SOURCES.....	312	270	248	-13.2	-8.1
FOREIGN SOURCES, TOTAL.....	401	375	407	-6.5	8.5
RESEARCH ASSISTANTSHIPS, TOTAL.....	8,474	8,824	8,451	4.1	-4.2
U.S. SOURCES, TOTAL.....	8,462	8,803	8,440	4.0	-4.1
U.S. GOVERNMENT.....	5,552	5,669	5,566	5.7	-5.2
INSTITUTIONAL SUPPORT.....	2,165	2,293	2,145	5.9	-6.5
SELF-SUPPORT.....	0	0	0	--	--
ALL OTHER U.S. SOURCES.....	745	641	729	-14.0	13.7
FOREIGN SOURCES, TOTAL.....	12	21	11	#	#
U.S. CITIZENS.....	4,504	4,688	4,761	4.1	1.6
U.S. SOURCES, TOTAL.....	4,504	4,688	4,761	4.1	1.6
U.S. GOVERNMENT.....	3,035	3,110	3,056	2.5	-1.7
INSTITUTIONAL SUPPORT.....	1,058	1,215	1,293	14.8	3.1
SELF-SUPPORT.....	0	0	0	--	--
ALL OTHER U.S. SOURCES.....	411	363	452	-11.7	24.5
FOREIGN SOURCES, TOTAL.....	0	0	0	--	--
FOREIGN STUDENTS.....	3,970	4,136	3,690	4.2	-10.8
U.S. SOURCES, TOTAL.....	3,958	4,115	3,679	4.0	-10.6
U.S. GOVERNMENT.....	2,517	2,759	2,510	9.6	-9.0
INSTITUTIONAL SUPPORT.....	1,107	1,078	892	-2.6	-17.3
SELF-SUPPORT.....	0	0	0	--	--
ALL OTHER U.S. SOURCES.....	334	278	277	-16.8	-4
FOREIGN SOURCES, TOTAL.....	12	21	11	#	#

TABLE C-17B. FULL-TIME GRADUATE STUDENTS IN ENGINEERING DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
TEACHING ASSISTANTSHIPS, TOTAL.....					
U.S. SOURCES, TOTAL.....	3,951	4,154	4,121	5.1	-0.8
U.S. GOVERNMENT.....	3,951	4,154	4,121	5.1	-0.8
INSTITUTIONAL SUPPORT.....	68	62	64	-8.6	3.2
SELF-SUPPORT.....	3,861	4,075	4,037	5.5	-0.9
ALL OTHER U.S. SOURCES.....	22	17	0	*	*
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
U.S. CITIZENS.....	2,317	2,689	2,595	7.4	4.3
U.S. SOURCES, TOTAL.....	2,317	2,689	2,595	7.4	4.3
U.S. GOVERNMENT.....	26	29	46	*	*
INSTITUTIONAL SUPPORT.....	2,276	2,446	2,536	7.5	3.7
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	15	14	13	*	*
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	1,634	1,665	1,526	1.9	-8.3
U.S. SOURCES, TOTAL.....	1,634	1,665	1,526	1.9	-8.3
U.S. GOVERNMENT.....	42	33	18	*	*
INSTITUTIONAL SUPPORT.....	1,595	1,629	1,501	2.1	-7.9
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	7	3	7	*	*
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	8,797	9,473	10,039	7.7	6.0
U.S. SOURCES, TOTAL.....	8,291	9,012	9,581	8.7	6.3
U.S. GOVERNMENT.....	1,262	1,285	1,175	1.8	-8.6
INSTITUTIONAL SUPPORT.....	433	373	412	-13.9	10.5
SELF-SUPPORT.....	5,023	5,873	6,882	16.9	17.2
ALL OTHER U.S. SOURCES.....	1,573	1,481	1,112	-5.8	-24.9
FOREIGN SOURCES, TOTAL.....	506	461	458	-8.9	-0.7
U.S. CITIZENS.....	5,625	5,928	6,105	5.4	3.0
U.S. SOURCES, TOTAL.....	5,625	5,928	6,105	5.4	3.0
U.S. GOVERNMENT.....	1,181	1,197	1,064	1.4	-11.1
INSTITUTIONAL SUPPORT.....	322	257	259	-20.2	.8
SELF-SUPPORT.....	2,816	3,251	3,879	15.4	19.3
ALL OTHER U.S. SOURCES.....	1,306	1,223	903	-6.4	-26.2
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	3,172	3,545	3,934	11.8	11.0
U.S. SOURCES, TOTAL.....	2,666	3,084	3,476	15.7	12.7
U.S. GOVERNMENT.....	81	88	111	8.6	26.1
INSTITUTIONAL SUPPORT.....	111	116	153	4.5	31.9
SELF-SUPPORT.....	2,207	2,622	3,003	18.8	14.5
ALL OTHER U.S. SOURCES.....	267	258	209	-3.4	-19.0
FOREIGN SOURCES, TOTAL.....	506	461	458	-8.9	-0.7

* PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.

TABLE C-17C. FULL-TIME GRADUATE STUDENTS IN PHYSICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
SOURCE OF MAJOR SUPPORT					
ALL SOURCES OF MAJOR SUPPORT, TOTAL.....	29,253	28,264	27,056	-3.4	-4.3
U.S. SOURCES, TOTAL.....	28,975	27,999	26,744	-3.4	-4.5
U.S. GOVERNMENT.....	12,885	11,790	10,402	-8.5	-11.8
INSTITUTIONAL SUPPORT.....	12,132	12,343	12,236	1.7	-0.9
SELF-SUPPORT.....	2,324	2,187	2,556	-5.9	16.9
ALL OTHER U.S. SOURCES.....	1,634	1,679	1,550	2.8	-7.7
FOREIGN SOURCES, TOTAL.....	278	265	312	-4.7	17.7
U.S. CITIZENS	23,719	22,612	21,560	-4.7	-4.7
U.S. SOURCES, TOTAL.....	23,704	22,602	21,554	-4.6	-4.6
U.S. GOVERNMENT.....	11,089	10,030	8,737	-9.6	-12.9
INSTITUTIONAL SUPPORT.....	9,466	9,509	9,504	0.5	-0.1
SELF-SUPPORT.....	1,872	1,773	2,069	-5.3	17.8
ALL OTHER U.S. SOURCES.....	1,277	1,290	1,224	1.0	-5.1
FOREIGN SOURCES, TOTAL.....	15	10	6	*	*
FOREIGN STUDENTS.....	5,534	5,652	5,496	2.1	-2.8
U.S. SOURCES, TOTAL.....	5,271	5,397	5,190	2.4	-3.8
U.S. GOVERNMENT.....	1,796	1,760	1,665	-2.0	-5.4
INSTITUTIONAL SUPPORT.....	2,666	2,834	2,732	6.3	-3.6
SELF-SUPPORT.....	452	414	467	-8.4	12.8
ALL OTHER U.S. SOURCES.....	357	389	326	9.0	-16.2
FOREIGN SOURCES, TOTAL.....	263	255	306	-3.0	20.0
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	6,878	5,958	5,027	-13.4	-15.6
U.S. SOURCES, TOTAL.....	6,686	5,774	4,823	-13.6	-16.5
U.S. GOVERNMENT.....	4,708	3,874	3,052	-17.7	-21.2
INSTITUTIONAL SUPPORT.....	1,245	1,258	1,169	1.0	-7.1
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	733	642	602	-12.4	-6.2
FOREIGN SOURCES, TOTAL.....	192	184	204	-4.2	10.9
U.S. CITIZENS	6,109	5,213	4,344	-14.7	-16.7
U.S. SOURCES, TOTAL.....	6,095	5,203	4,338	-14.6	-16.6
U.S. GOVERNMENT.....	4,656	3,834	2,989	-17.7	-22.0
INSTITUTIONAL SUPPORT.....	880	896	885	1.8	-1.2
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	559	473	464	-15.4	-1.9
FOREIGN SOURCES, TOTAL.....	14	10	6	*	*
FOREIGN STUDENTS.....	769	745	683	-3.1	-8.3
U.S. SOURCES, TOTAL.....	591	571	485	-3.4	-15.1
U.S. GOVERNMENT.....	52	40	63	-23.1	*
INSTITUTIONAL SUPPORT.....	365	362	284	-0.8	-21.5
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	174	169	138	-2.9	-18.3
FOREIGN SOURCES, TOTAL.....	178	174	198	-2.2	13.8
RESEARCH ASSISTANTS, TOTAL.....	9,218	8,800	8,248	-4.5	-6.3
U.S. SOURCES, TOTAL.....	9,208	8,794	8,238	-4.5	-6.3
U.S. GOVERNMENT.....	7,719	7,374	6,879	-4.5	-6.7
INSTITUTIONAL SUPPORT.....	948	863	862	-9.0	-0.1
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	541	557	497	3.0	-10.8
FOREIGN SOURCES, TOTAL.....	10	6	10	*	0
U.S. CITIZENS	7,175	6,799	6,349	-5.2	-6.6
U.S. SOURCES, TOTAL.....	7,175	6,799	6,349	-5.2	-6.6
U.S. GOVERNMENT.....	6,019	5,709	5,309	-5.2	-7.0
INSTITUTIONAL SUPPORT.....	722	656	654	-9.1	-0.3
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	434	435	386	0.2	-11.3
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	2,043	2,001	1,899	-2.1	-5.1
U.S. SOURCES, TOTAL.....	2,033	1,995	1,889	-1.9	-5.3
U.S. GOVERNMENT.....	1,700	1,666	1,570	-2.0	-5.8
INSTITUTIONAL SUPPORT.....	226	207	208	-8.4	0.5
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	107	122	111	14.0	-9.0
FOREIGN SOURCES, TOTAL.....	10	6	10	*	*

TABLE C- 17C. FULL-TIME GRADUATE STUDENTS IN PHYSICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER		PERCENT CHANGE	
	1969	1970	1969-70	1970-71
TEACHING ASSISTANTSHIPS, TOTAL.....				
U.S. SOURCES, TOTAL.....	9,797	10,199	4.1	-1.2
U.S. GOVERNMENT.....	9,797	10,081	4.1	-1.2
INSTITUTIONAL SUPPORT.....	63	106	68.3	-2.8
SELF-SUPPORT.....	9,726	9,996	2.8	-
ALL OTHER U.S. SOURCES.....	0	0	-	-
FOREIGN SOURCES, TOTAL.....	0	97	-	-69.5
U.S. CITIZENS.....	7,754	7,929	2.3	-9
U.S. SOURCES, TOTAL.....	7,754	7,929	2.3	-9
U.S. GOVERNMENT.....	52	75	44.2	13.3
INSTITUTIONAL SUPPORT.....	7,697	7,775	1.0	-5
SELF-SUPPORT.....	0	0	-	-
ALL OTHER U.S. SOURCES.....	5	79	-	-50.6
FOREIGN SOURCES, TOTAL.....	0	0	-	-
FOREIGN STUDENTS.....	2,043	2,270	11.1	-2.1
U.S. SOURCES, TOTAL.....	2,043	2,270	11.1	-2.1
U.S. GOVERNMENT.....	11	31	18	-
INSTITUTIONAL SUPPORT.....	2,029	2,221	9.5	-1.2
SELF-SUPPORT.....	0	0	-	-
ALL OTHER U.S. SOURCES.....	3	18	-	-
FOREIGN SOURCES, TOTAL.....	0	0	-	-
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	3,360	3,307	-1.6	11.9
U.S. SOURCES, TOTAL.....	3,284	3,232	-1.6	11.4
U.S. GOVERNMENT.....	395	436	10.4	-15.6
INSTITUTIONAL SUPPORT.....	213	226	6.1	22.1
SELF-SUPPORT.....	2,324	2,187	-5.9	16.9
ALL OTHER U.S. SOURCES.....	352	383	8.8	5.0
FOREIGN SOURCES, TOTAL.....	76	75	-1.3	30.7
U.S. CITIZENS.....	2,681	2,671	-0.4	12.6
U.S. SOURCES, TOTAL.....	2,680	2,671	-0.3	12.6
U.S. GOVERNMENT.....	362	413	14.1	-18.3
INSTITUTIONAL SUPPORT.....	167	182	9.0	26.4
SELF-SUPPORT.....	1,872	1,773	-5.3	17.8
ALL OTHER U.S. SOURCES.....	279	303	8.6	10.6
FOREIGN SOURCES, TOTAL.....	1	0	-	-
FOREIGN STUDENTS.....	679	636	-6.3	8.8
U.S. SOURCES, TOTAL.....	604	561	-7.1	5.9
U.S. GOVERNMENT.....	33	23	-	-
INSTITUTIONAL SUPPORT.....	46	46	0	0
SELF-SUPPORT.....	452	414	-8.4	12.8
ALL OTHER U.S. SOURCES.....	73	80	9.6	-16.3
FOREIGN SOURCES, TOTAL.....	75	75	0	30.7

* PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.
□ LESS THAN 0.05 PERCENT CHANGE.

TABLE C-17D. FULL-TIME GRADUATE STUDENTS IN MATHEMATICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
SOURCE OF MAJOR SUPPORT					
ALL SOURCES OF MAJOR SUPPORT, TOTAL.....	11,349	11,500	11,008	1.3	-4.3
U.S. SOURCES, TOTAL.....	11,231	11,355	10,877	1.1	-4.2
U.S. GOVERNMENT.....	3,104	2,737	2,201	-11.8	-19.6
INSTITUTIONAL SUPPORT.....	5,736	6,211	5,852	8.3	-5.8
SELF-SUPPORT.....	1,969	1,943	2,363	-1.3	22.6
ALL OTHER U.S. SOURCES.....	424	464	441	9.4	-5.0
FOREIGN SOURCES, TOTAL.....	118	145	131	22.9	-9.7
U.S. CITIZENS.....	9,310	9,340	8,840	.3	-5.4
U.S. SOURCES, TOTAL.....	9,306	9,339	8,831	.4	-5.4
U.S. GOVERNMENT.....	2,798	2,394	1,900	-14.4	-20.6
INSTITUTIONAL SUPPORT.....	4,536	4,964	4,722	9.4	-4.9
SELF-SUPPORT.....	1,644	1,605	1,844	-2.4	14.9
ALL OTHER U.S. SOURCES.....	328	376	365	14.6	-2.9
FOREIGN SOURCES, TOTAL.....	4	1	9	#	#
FOREIGN STUDENTS.....	2,039	2,160	2,168	5.9	.4
U.S. SOURCES, TOTAL.....	1,925	2,016	2,046	4.7	1.5
U.S. GOVERNMENT.....	306	343	301	12.1	-12.2
INSTITUTIONAL SUPPORT.....	1,198	1,247	1,130	4.1	-9.6
SELF-SUPPORT.....	325	338	539	4.0	59.5
ALL OTHER U.S. SOURCES.....	96	88	76	-8.5	-13.6
FOREIGN SOURCES, TOTAL.....	114	144	122	26.3	-15.3
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	2,639	2,364	2,039	-10.4	-13.7
U.S. SOURCES, TOTAL.....	2,564	2,270	1,946	-11.5	-14.3
U.S. GOVERNMENT.....	1,891	1,620	1,276	-14.3	-21.2
INSTITUTIONAL SUPPORT.....	497	469	462	-5.6	-1.5
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	176	181	208	2.8	14.9
FOREIGN SOURCES, TOTAL.....	75	94	93	25.3	-1.1
U.S. CITIZENS.....	2,306	2,068	1,764	-10.3	-14.7
U.S. SOURCES, TOTAL.....	2,302	2,067	1,755	-10.2	-15.1
U.S. GOVERNMENT.....	1,871	1,607	1,251	-14.1	-21.5
INSTITUTIONAL SUPPORT.....	309	316	327	2.3	3.5
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	122	144	167	18.0	16.0
FOREIGN SOURCES, TOTAL.....	4	1	9	#	#
FOREIGN STUDENTS.....	333	296	275	-11.1	-7.1
U.S. SOURCES, TOTAL.....	262	203	191	-22.5	-5.9
U.S. GOVERNMENT.....	20	13	15	#	#
INSTITUTIONAL SUPPORT.....	168	153	135	-18.6	-11.8
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	54	37	41	-31.5	#
FOREIGN SOURCES, TOTAL.....	71	93	84	31.0	-9.7
RESEARCH ASSISTANTSHIPS, TOTAL.....	1,135	1,208	1,005	6.4	-16.8
U.S. SOURCES, TOTAL.....	1,135	1,207	1,002	6.3	-17.0
U.S. GOVERNMENT.....	812	823	708	1.4	-14.0
INSTITUTIONAL SUPPORT.....	294	359	288	22.1	-19.8
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	29	25	6	#	#
FOREIGN SOURCES, TOTAL.....	0	1	3	---	#
U.S. CITIZENS.....	796	804	669	1.0	-16.8
U.S. SOURCES, TOTAL.....	796	804	669	1.0	-16.8
U.S. GOVERNMENT.....	556	544	443	-5.8	-15.5
INSTITUTIONAL SUPPORT.....	222	263	221	18.5	-16.0
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	18	17	5	#	#
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	339	404	336	19.2	-16.8
U.S. SOURCES, TOTAL.....	339	403	333	18.9	-17.4
U.S. GOVERNMENT.....	256	299	265	16.8	-11.4
INSTITUTIONAL SUPPORT.....	72	96	67	33.3	-30.2
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	11	8	1	#	#
FOREIGN SOURCES, TOTAL.....	0	1	3	---	#

TABLE C-17D. FULL-TIME GRADUATE STUDENTS IN MATHEMATICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER		PERCENT CHANGE	
	1969	1970	1969-70	1970-71
TEACHING ASSISTANTSHIPS, TOTAL.....	4,687	5,131	9.5	-3.5
U.S. SOURCES, TOTAL.....	4,687	5,131	9.5	-3.5
U.S. GOVERNMENT.....	42	30	4	6
INSTITUTIONAL SUPPORT.....	4,640	5,078	9.4	-4.0
SELF-SUPPORT.....	0	0	---	---
ALL OTHER U.S. SOURCES.....	5	23	6	6
FOREIGN SOURCES, TOTAL.....	0	0	---	---
U.S. CITIZENS.....	3,781	4,161	10.1	-2.5
U.S. SOURCES, TOTAL.....	3,781	4,161	10.1	-2.5
U.S. GOVERNMENT.....	40	22	37	6
INSTITUTIONAL SUPPORT.....	3,740	4,125	10.3	-3.3
SELF-SUPPORT.....	0	14	---	---
ALL OTHER U.S. SOURCES.....	1	35	6	6
FOREIGN SOURCES, TOTAL.....	0	0	---	---
FOREIGN STUDENTS.....	906	970	7.1	-8.0
U.S. SOURCES, TOTAL.....	906	970	7.1	-8.0
U.S. GOVERNMENT.....	2	8	4	6
INSTITUTIONAL SUPPORT.....	900	953	5.9	-7.0
SELF-SUPPORT.....	0	0	---	---
ALL OTHER U.S. SOURCES.....	4	9	6	6
FOREIGN SOURCES, TOTAL.....	0	0	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	2,888	2,797	-3.2	7.7
U.S. SOURCES, TOTAL.....	2,845	2,747	-3.4	8.4
U.S. GOVERNMENT.....	359	244	-26.5	-33.3
INSTITUTIONAL SUPPORT.....	303	305	0.7	-24.9
SELF-SUPPORT.....	1,969	1,943	-1.3	22.6
ALL OTHER U.S. SOURCES.....	214	235	9.8	-19.1
FOREIGN SOURCES, TOTAL.....	43	50	6	6
U.S. CITIZENS.....	2,427	2,307	-4.9	1.8
U.S. SOURCES, TOTAL.....	2,427	2,307	-4.9	1.8
U.S. GOVERNMENT.....	331	241	-27.2	-34.0
INSTITUTIONAL SUPPORT.....	265	260	-1.9	-28.1
SELF-SUPPORT.....	1,644	1,605	-2.4	14.9
ALL OTHER U.S. SOURCES.....	187	201	7.5	-21.4
FOREIGN SOURCES, TOTAL.....	0	0	---	---
FOREIGN STUDENTS.....	461	490	6.3	35.7
U.S. SOURCES, TOTAL.....	418	440	5.3	43.2
U.S. GOVERNMENT.....	28	23	6	6
INSTITUTIONAL SUPPORT.....	38	45	4	6
SELF-SUPPORT.....	325	338	4.0	59.5
ALL OTHER U.S. SOURCES.....	27	34	6	6
FOREIGN SOURCES, TOTAL.....	43	50	6	6

* PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.

TABLE C-172. FULL-TIME GRADUATE STUDENTS IN LIFE SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
SOURCE OF MAJOR SUPPORT					
ALL SOURCES OF MAJOR SUPPORT, TOTAL.....	24,645	24,754	24,752	0.4	0.1
U.S. SOURCES, TOTAL.....	24,328	24,337	24,421	0	0.3
U.S. GOVERNMENT.....	10,237	9,553	8,714	-6.7	-8.8
INSTITUTIONAL SUPPORT.....	9,892	9,095	9,159	-2.3	0.7
SELF-SUPPORT.....	3,665	4,099	4,820	11.8	17.6
ALL OTHER U.S. SOURCES.....	1,534	1,590	1,728	3.7	8.7
FOREIGN SOURCES, TOTAL.....	317	402	331	26.8	-17.7
U.S. CITIZENS.....	20,888	20,980	21,056	0.4	0.4
U.S. SOURCES, TOTAL.....	20,882	20,983	21,053	0.4	0.4
U.S. GOVERNMENT.....	9,189	8,568	7,810	-6.8	-8.8
INSTITUTIONAL SUPPORT.....	7,467	7,664	7,725	2.6	0.8
SELF-SUPPORT.....	3,154	3,635	4,292	15.3	18.1
ALL OTHER U.S. SOURCES.....	1,072	1,096	1,226	2.2	11.9
FOREIGN SOURCES, TOTAL.....	6	17	3	183.3	-82.4
FOREIGN STUDENTS.....	3,757	3,759	3,696	0	-1.7
U.S. SOURCES, TOTAL.....	3,446	3,374	3,268	-2.1	-3.2
U.S. GOVERNMENT.....	1,048	985	904	-6.0	-8.2
INSTITUTIONAL SUPPORT.....	1,425	1,431	1,434	0.4	0.2
SELF-SUPPORT.....	511	484	528	-5.3	9.1
ALL OTHER U.S. SOURCES.....	462	494	502	6.9	1.6
FOREIGN SOURCES, TOTAL.....	311	385	328	23.8	-14.8
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....					
U.S. SOURCES, TOTAL.....	8,613	8,092	7,407	-6.0	-8.5
U.S. GOVERNMENT.....	8,429	7,859	7,217	-6.8	-8.2
INSTITUTIONAL SUPPORT.....	6,984	6,299	5,621	-9.8	-10.8
SELF-SUPPORT.....	920	944	1,026	2.5	8.7
ALL OTHER U.S. SOURCES.....	525	596	570	13.5	-4.4
FOREIGN SOURCES, TOTAL.....	184	233	190	26.6	-18.5
U.S. CITIZENS.....	7,769	7,177	6,552	-7.6	-8.7
U.S. SOURCES, TOTAL.....	7,765	7,160	6,549	-7.8	-8.5
U.S. GOVERNMENT.....	6,720	6,042	5,383	-10.1	-10.9
INSTITUTIONAL SUPPORT.....	750	764	795	1.9	4.1
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	295	354	371	20.0	4.8
FOREIGN SOURCES, TOTAL.....	4	17	3	325.0	-88.2
FOREIGN STUDENTS.....	844	915	855	8.4	-6.6
U.S. SOURCES, TOTAL.....	664	699	668	5.3	-4.4
U.S. GOVERNMENT.....	264	257	238	-2.7	-7.4
INSTITUTIONAL SUPPORT.....	170	200	231	17.6	15.5
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	230	242	199	5.2	-17.8
FOREIGN SOURCES, TOTAL.....	180	216	187	20.0	-13.4
RESEARCH ASSISTANTSHIPS, TOTAL.....					
U.S. SOURCES, TOTAL.....	5,626	5,649	5,536	0.4	-2.0
U.S. GOVERNMENT.....	5,605	5,634	5,519	0.5	-2.0
INSTITUTIONAL SUPPORT.....	2,896	2,858	2,717	-1.3	-4.9
SELF-SUPPORT.....	2,153	2,224	2,214	3.3	-0.4
ALL OTHER U.S. SOURCES.....	556	552	588	-0.7	6.5
FOREIGN SOURCES, TOTAL.....	21	15	17	-29.1	13.3
U.S. CITIZENS.....	4,210	4,309	4,338	2.4	0.7
U.S. SOURCES, TOTAL.....	4,208	4,309	4,338	2.4	0.7
U.S. GOVERNMENT.....	2,198	2,200	2,156	0.1	-2.0
INSTITUTIONAL SUPPORT.....	1,598	1,697	1,738	6.2	2.4
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	412	412	464	0	12.6
FOREIGN SOURCES, TOTAL.....	2	0	0	---	---
FOREIGN STUDENTS.....	1,416	1,340	1,198	-5.4	-10.6
U.S. SOURCES, TOTAL.....	1,397	1,325	1,181	-5.2	-10.9
U.S. GOVERNMENT.....	698	658	581	-5.7	-11.7
INSTITUTIONAL SUPPORT.....	555	527	476	-5.0	-9.7
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	144	140	124	-2.8	-11.4
FOREIGN SOURCES, TOTAL.....	19	15	17	-26.3	13.3

TABLE C-17A. FULL-TIME GRADUATE STUDENTS IN LIFE SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
TEACHING ASSISTANTSHIPS, TOTAL.....					
U.S. SOURCES, TOTAL.....	5,575	5,754	5,765	3.2	0.2
U.S. GOVERNMENT.....	5,575	5,754	5,765	3.2	.2
INSTITUTIONAL SUPPORT.....	47	89	88	8	-1.1
SELF-SUPPORT.....	5,479	5,603	5,597	2.3	-1.1
ALL OTHER U.S. SOURCES.....	0	0	0	---	---
FOREIGN SOURCES, TOTAL.....	49	62	80	8	29.0
U.S. CITIZENS.....	0	0	0	---	---
U.S. SOURCES, TOTAL.....	4,910	5,068	5,061	3.2	-.1
U.S. GOVERNMENT.....	4,910	5,068	5,061	3.2	-.1
INSTITUTIONAL SUPPORT.....	39	74	73	8	-1.4
SELF-SUPPORT.....	4,828	4,937	4,918	2.3	-.4
ALL OTHER U.S. SOURCES.....	0	0	0	---	---
FOREIGN SOURCES, TOTAL.....	43	57	70	8	22.8
FOREIGN STUDENTS.....	665	686	704	3.2	2.6
U.S. SOURCES, TOTAL.....	665	686	704	3.2	2.6
U.S. GOVERNMENT.....	8	15	15	8	0
INSTITUTIONAL SUPPORT.....	651	666	679	2.3	2.0
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	6	5	10	8	8
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	4,831	5,244	6,044	8.5	15.3
U.S. SOURCES, TOTAL.....	4,719	5,090	5,920	7.9	16.3
U.S. GOVERNMENT.....	310	307	288	-1.0	-6.2
INSTITUTIONAL SUPPORT.....	340	304	322	-10.6	5.9
SELF-SUPPORT.....	3,665	4,099	4,820	11.8	17.6
ALL OTHER U.S. SOURCES.....	404	380	490	-5.9	28.9
FOREIGN SOURCES, TOTAL.....	112	154	124	37.5	-19.5
U.S. CITIZENS.....	3,999	4,426	5,105	10.7	15.3
U.S. SOURCES, TOTAL.....	3,999	4,426	5,105	10.7	15.3
U.S. GOVERNMENT.....	232	252	218	8.6	-13.5
INSTITUTIONAL SUPPORT.....	291	266	274	-8.6	3.0
SELF-SUPPORT.....	3,415	3,635	4,292	15.3	18.1
ALL OTHER U.S. SOURCES.....	32	273	321	-15.2	17.6
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	832	818	939	-1.7	14.8
U.S. SOURCES, TOTAL.....	720	664	815	-7.8	22.7
U.S. GOVERNMENT.....	78	55	70	-29.5	27.3
INSTITUTIONAL SUPPORT.....	49	38	48	8	26.3
SELF-SUPPORT.....	511	464	528	-9.2	13.8
ALL OTHER U.S. SOURCES.....	82	107	169	30.5	57.9
FOREIGN SOURCES, TOTAL.....	112	154	124	37.5	-19.5

* PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.
 □ LESS THAN 0.05 PERCENT CHANGE.

TABLE C-17b. FULL-TIME GRADUATE STUDENTS IN PSYCHOLOGY DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
SOURCE OF MAJOR SUPPORT					
ALL SOURCES OF MAJOR SUPPORT, TOTAL.....	11,142	11,272	11,817	1.2	4.8
U.S. SOURCES, TOTAL.....	11,105	11,243	11,778	1.2	4.8
U.S. GOVERNMENT.....	4,903	4,735	4,526	-3.4	-4.4
INSTITUTIONAL SUPPORT.....	3,624	3,852	4,012	6.3	4.2
SELF-SUPPORT.....	1,940	2,072	2,580	6.8	24.5
ALL OTHER U.S. SOURCES.....	638	564	660	-8.5	13.0
FOREIGN SOURCES, TOTAL.....	37	29	39	#	#
U.S. CITIZENS.....	10,660	10,818	11,339	1.5	4.8
U.S. SOURCES, TOTAL.....	10,657	10,817	11,337	1.5	4.8
U.S. GOVERNMENT.....	4,802	4,647	4,424	-3.2	-4.8
INSTITUTIONAL SUPPORT.....	3,397	3,629	3,809	6.8	5.0
SELF-SUPPORT.....	1,842	1,998	2,487	8.5	24.5
ALL OTHER U.S. SOURCES.....	616	563	617	-11.9	13.6
FOREIGN SOURCES, TOTAL.....	3	1	2	#	#
FOREIGN STUDENTS.....	482	454	478	-5.8	5.3
U.S. SOURCES, TOTAL.....	448	426	441	-4.9	3.5
U.S. GOVERNMENT.....	101	88	102	-12.9	15.9
INSTITUTIONAL SUPPORT.....	227	223	203	-1.8	-9.0
SELF-SUPPORT.....	98	74	93	-24.5	25.7
ALL OTHER U.S. SOURCES.....	22	41	43	#	#
FOREIGN SOURCES, TOTAL.....	34	28	37	#	#
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	4,559	4,493	4,225	-1.4	-6.0
U.S. SOURCES, TOTAL.....	4,530	4,477	4,196	-1.2	-6.3
U.S. GOVERNMENT.....	3,804	3,657	3,371	-3.9	-7.6
INSTITUTIONAL SUPPORT.....	557	664	628	19.2	-5.4
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	169	156	197	-7.7	26.3
FOREIGN SOURCES, TOTAL.....	29	15	29	#	#
U.S. CITIZENS.....	4,444	4,378	4,122	-1.5	-5.8
U.S. SOURCES, TOTAL.....	4,441	4,377	4,120	-1.4	-5.9
U.S. GOVERNMENT.....	3,783	3,639	3,350	-3.8	-7.9
INSTITUTIONAL SUPPORT.....	499	602	590	20.6	-2.0
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	159	136	180	-14.5	32.4
FOREIGN SOURCES, TOTAL.....	3	1	2	#	#
FOREIGN STUDENTS.....	115	115	103	#	-10.4
U.S. SOURCES, TOTAL.....	89	100	76	12.4	-24.0
U.S. GOVERNMENT.....	21	18	21	#	#
INSTITUTIONAL SUPPORT.....	58	62	38	6.9	-38.7
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	10	20	17	#	#
FOREIGN SOURCES, TOTAL.....	26	15	27	#	#
RESEARCH ASSISTANTSHIPS, TOTAL.....	1,539	1,561	1,589	1.4	1.8
U.S. SOURCES, TOTAL.....	1,538	1,559	1,587	1.4	1.8
U.S. GOVERNMENT.....	939	910	1,006	-3.1	10.5
INSTITUTIONAL SUPPORT.....	540	576	632	6.7	16.3
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	59	73	99	23.7	35.6
FOREIGN SOURCES, TOTAL.....	1	2	2	#	#
U.S. CITIZENS.....	1,422	1,447	1,471	1.8	1.7
U.S. SOURCES, TOTAL.....	1,422	1,447	1,471	1.8	1.7
U.S. GOVERNMENT.....	864	864	928	-2.3	10.0
INSTITUTIONAL SUPPORT.....	503	536	455	6.6	-15.1
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	55	67	88	21.8	31.5
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	117	114	118	-2.6	3.5
U.S. SOURCES, TOTAL.....	116	112	116	-3.4	3.6
U.S. GOVERNMENT.....	75	66	78	-12.0	18.2
INSTITUTIONAL SUPPORT.....	37	40	27	#	---
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	4	6	11	#	#
FOREIGN SOURCES, TOTAL.....	1	2	2	#	#

TABLE C- 17B. FULL-TIME GRADUATE STUDENTS IN PSYCHOLOGY DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,
BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71 (CONTINUED)

SOURCE OF MAJOR SUPPORT	1969	NUMBER		PERCENT CHANGE	
		1970	1971	1969-70	1970-71
TEACHING ASSISTANTSHIPS, TOTAL.....					
U.S. SOURCES, TOTAL.....	2,104	2,212	2,299	5.1	3.9
U.S. GOVERNMENT.....	2,104	2,212	2,299	5.1	3.9
INSTITUTIONAL SUPPORT.....	9	24	13	2.5	6.3
SELF-SUPPORT.....	2,090	2,143	2,279	2.5	6.3
ALL OTHER U.S. SOURCES.....	5	45	7	---	---
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
U.S. CITIZENS.....	1,983	2,101	2,178	6.0	3.7
U.S. SOURCES, TOTAL.....	1,983	2,101	2,178	6.0	3.7
U.S. GOVERNMENT.....	9	22	13	2.5	6.3
INSTITUTIONAL SUPPORT.....	1,969	2,036	2,158	3.4	6.0
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	5	43	7	---	---
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	121	111	121	-8.3	9.0
U.S. SOURCES, TOTAL.....	121	111	121	-8.3	9.0
U.S. GOVERNMENT.....	0	2	0	---	---
INSTITUTIONAL SUPPORT.....	121	107	121	-11.6	13.1
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	0	2	0	---	---
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	2,940	3,006	3,704	2.2	23.2
U.S. SOURCES, TOTAL.....	2,933	2,995	3,696	2.1	23.4
U.S. GOVERNMENT.....	151	144	136	-4.6	-5.6
INSTITUTIONAL SUPPORT.....	437	469	623	7.3	32.8
SELF-SUPPORT.....	1,940	2,072	2,580	6.8	24.5
ALL OTHER U.S. SOURCES.....	405	310	357	-23.5	15.2
FOREIGN SOURCES, TOTAL.....	7	11	8	---	---
U.S. CITIZENS.....	2,811	2,892	3,568	2.9	23.4
U.S. SOURCES, TOTAL.....	2,811	2,892	3,568	2.9	23.4
U.S. GOVERNMENT.....	146	142	133	-2.7	-6.3
INSTITUTIONAL SUPPORT.....	426	455	606	6.8	33.2
SELF-SUPPORT.....	1,842	1,998	2,487	8.5	24.5
ALL OTHER U.S. SOURCES.....	397	297	342	-25.2	15.2
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	129	114	136	-11.6	19.3
U.S. SOURCES, TOTAL.....	122	103	128	-15.6	24.3
U.S. GOVERNMENT.....	5	2	3	---	---
INSTITUTIONAL SUPPORT.....	11	14	17	2.7	21.7
SELF-SUPPORT.....	98	74	93	-24.5	25.7
ALL OTHER U.S. SOURCES.....	8	13	15	6.3	15.4
FOREIGN SOURCES, TOTAL.....	7	11	8	---	---

* PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.
 a LESS THAN 0.05 PERCENT CHANGE.

TABLE C-270. FULL-TIME GRADUATE STUDENTS IN SOCIAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71

SOURCE OF MAJOR SUPPORT	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
SOURCE OF MAJOR SUPPORT					
ALL SOURCES OF MAJOR SUPPORT, TOTAL.....	26,753	26,593	26,361	-0.6	-0.9
U.S. SOURCES, TOTAL.....	26,356	26,159	25,941	-0.7	-0.8
U.S. GOVERNMENT.....	5,717	5,413	5,106	-5.3	-5.7
INSTITUTIONAL SUPPORT.....	9,530	9,316	9,345	-2.1	-1.9
SELF-SUPPORT.....	9,202	8,981	8,580	-6.7	-4.5
ALL OTHER U.S. SOURCES.....	1,907	2,249	1,820	17.9	-16.6
FOREIGN SOURCES, TOTAL.....	397	434	420	9.3	-3.2
U.S. CITIZENS.....	22,574	22,133	22,024	-2.0	-0.5
U.S. SOURCES, TOTAL.....	22,569	22,128	22,019	-2.0	-0.5
U.S. GOVERNMENT.....	5,309	5,009	4,611	-5.7	-7.9
INSTITUTIONAL SUPPORT.....	7,817	7,775	7,766	-0.5	-0.1
SELF-SUPPORT.....	8,093	7,740	8,268	-4.4	6.8
ALL OTHER U.S. SOURCES.....	1,350	1,604	1,374	18.8	-14.3
FOREIGN SOURCES, TOTAL.....	5	5	5	0	0
FOREIGN STUDENTS.....	4,179	4,460	4,337	6.7	-2.8
U.S. SOURCES, TOTAL.....	3,787	4,031	3,922	6.4	-2.7
U.S. GOVERNMENT.....	408	404	395	-1.0	-2.5
INSTITUTIONAL SUPPORT.....	1,713	1,741	1,569	1.6	-9.9
SELF-SUPPORT.....	1,109	1,241	1,312	11.9	5.7
ALL OTHER U.S. SOURCES.....	557	645	546	15.8	-15.3
FOREIGN SOURCES, TOTAL.....	392	429	415	9.4	-3.3
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....					
U.S. SOURCES, TOTAL.....	8,712	8,463	7,956	-2.9	-6.0
U.S. GOVERNMENT.....	8,404	8,123	7,599	-3.3	-6.5
INSTITUTIONAL SUPPORT.....	4,639	4,130	4,130	-4.6	-0.0
SELF-SUPPORT.....	2,484	2,228	2,233	-10.3	0.2
ALL OTHER U.S. SOURCES.....	0	0	0	---	---
FOREIGN SOURCES, TOTAL.....	1,281	1,471	1,236	14.8	-16.0
U.S. CITIZENS.....	7,212	6,804	6,359	-5.7	-6.5
U.S. SOURCES, TOTAL.....	7,207	6,799	6,354	-5.7	-6.5
U.S. GOVERNMENT.....	4,439	4,166	3,817	-6.2	-8.4
INSTITUTIONAL SUPPORT.....	1,915	1,685	1,730	-12.0	2.7
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	853	948	807	11.1	-14.9
FOREIGN SOURCES, TOTAL.....	5	5	5	0	0
FOREIGN STUDENTS.....	1,500	1,659	1,597	10.6	-3.7
U.S. SOURCES, TOTAL.....	1,197	1,324	1,245	10.6	-6.0
U.S. GOVERNMENT.....	200	258	313	29.0	21.3
INSTITUTIONAL SUPPORT.....	569	543	503	-4.6	-7.4
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	428	523	429	22.2	-18.0
FOREIGN SOURCES, TOTAL.....	303	335	352	10.6	5.1
RESEARCH ASSISTANTS, TOTAL.....					
U.S. SOURCES, TOTAL.....	2,454	2,458	2,420	-2.2	-1.5
U.S. GOVERNMENT.....	2,454	2,454	2,420	-2.2	-1.4
INSTITUTIONAL SUPPORT.....	723	617	643	-14.7	4.2
SELF-SUPPORT.....	1,600	1,719	1,597	7.4	-7.1
ALL OTHER U.S. SOURCES.....	0	0	0	---	---
FOREIGN SOURCES, TOTAL.....	185	118	180	-36.2	52.5
U.S. CITIZENS.....	1,987	1,930	1,953	-2.9	1.2
U.S. SOURCES, TOTAL.....	1,987	1,930	1,953	-2.9	1.2
U.S. GOVERNMENT.....	566	490	487	-13.4	-0.6
INSTITUTIONAL SUPPORT.....	1,265	1,355	1,322	7.1	-2.4
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	136	85	144	-37.5	69.4
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	527	528	467	0.2	-11.6
U.S. SOURCES, TOTAL.....	521	524	467	0.6	-10.9
U.S. GOVERNMENT.....	157	127	156	-19.1	22.8
INSTITUTIONAL SUPPORT.....	314	364	275	15.6	-24.2
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	49	33	36	-32.7	9.1
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---

TABLE C-170. FULL-TIME GRADUATE STUDENTS IN SOCIAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1969-71 (CONTINUED)

SOURCE OF MAJOR SUPPORT	1969	NUMBER		PERCENT CHANGE	
		1970	1971	1969-70	1970-71
TEACHING ASSISTANTSHIPS, TOTAL.....	5,107	5,166	5,118	1.2	-0.9
U.S. SOURCES, TOTAL.....	5,107	5,166	5,118	1.2	-0.9
U.S. GOVERNMENT.....	66	25	15	-62.1	-4.0
INSTITUTIONAL SUPPORT.....	4,994	5,120	5,014	2.5	-2.1
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	47	21	29	4	38
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
U.S. CITIZENS.....	4,334	4,376	4,391	1.0	.3
U.S. SOURCES, TOTAL.....	4,334	4,376	4,391	1.0	.3
U.S. GOVERNMENT.....	56	23	65	-58.9	184
INSTITUTIONAL SUPPORT.....	4,239	4,337	4,303	2.3	-2.8
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	39	16	23	8	44
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	773	790	727	2.2	-8.0
U.S. SOURCES, TOTAL.....	773	790	727	2.2	-8.0
U.S. GOVERNMENT.....	10	2	10	0	80
INSTITUTIONAL SUPPORT.....	758	783	711	3.7	-9.2
SELF-SUPPORT.....	0	0	0	---	---
ALL OTHER U.S. SOURCES.....	5	5	6	0	20
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	10,420	10,506	10,867	.8	3.4
U.S. SOURCES, TOTAL.....	10,337	10,416	10,804	.8	3.7
U.S. GOVERNMENT.....	289	347	258	20.1	-25.6
INSTITUTIONAL SUPPORT.....	452	449	491	-.7	9.4
SELF-SUPPORT.....	9,202	8,981	9,580	-2.4	6.7
ALL OTHER U.S. SOURCES.....	394	639	475	62.2	-25.7
FOREIGN SOURCES, TOTAL.....	83	90	63	8.4	-30.0
U.S. CITIZENS.....	9,041	9,023	9,321	-.2	3.3
U.S. SOURCES, TOTAL.....	9,041	9,023	9,321	-.2	3.3
U.S. GOVERNMENT.....	248	330	242	33.1	-26.7
INSTITUTIONAL SUPPORT.....	378	398	411	5.3	3.3
SELF-SUPPORT.....	8,093	7,740	8,268	-4.4	6.8
ALL OTHER U.S. SOURCES.....	322	555	400	72.6	-27.9
FOREIGN SOURCES, TOTAL.....	0	0	0	---	---
FOREIGN STUDENTS.....	1,379	1,483	1,546	7.5	4.2
U.S. SOURCES, TOTAL.....	1,296	1,393	1,483	7.5	6.5
U.S. GOVERNMENT.....	41	17	16	0	-6
INSTITUTIONAL SUPPORT.....	76	51	80	-31.1	56.9
SELF-SUPPORT.....	1,109	1,241	1,312	11.9	5.7
ALL OTHER U.S. SOURCES.....	72	84	75	16.7	-10.7
FOREIGN SOURCES, TOTAL.....	83	90	63	8.4	-30.0

* PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.

TABLE C-18A. FULL-TIME GRADUATE STUDENTS IN SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1969-71

ITEM	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
CITIZENSHIP					
U. S. CITIZENS, TOTAL.....	105,768	104,724	103,400	-1.0	-1.3
FIRST-YEAR STUDENTS.....	34,036	33,599	32,228	-1.3	-4.1
BEYOND-FIRST-YEAR STUDENTS.....	71,732	71,125	71,172	-.8	.1
FOREIGN STUDENTS, TOTAL.....	26,167	27,178	26,539	3.9	-2.4
FIRST-YEAR STUDENTS.....	9,108	8,600	7,841	-5.6	-8.8
BEYOND-FIRST-YEAR STUDENTS.....	17,059	18,578	18,698	8.9	.6
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	38,972	36,453	32,988	-6.5	-9.5
FIRST-YEAR STUDENTS.....	11,638	11,213	9,280	-3.7	-17.2
BEYOND-FIRST-YEAR STUDENTS.....	27,334	25,240	23,708	-7.7	-6.1
U. S. CITIZENS, TOTAL.....	34,011	31,376	28,261	-7.7	-9.9
FIRST-YEAR STUDENTS.....	9,800	9,467	7,731	-3.4	-18.3
BEYOND-FIRST-YEAR STUDENTS.....	24,211	21,909	20,530	-9.5	-6.3
FOREIGN STUDENTS, TOTAL.....	4,961	5,077	4,727	2.3	-6.9
FIRST-YEAR STUDENTS.....	1,838	1,746	1,549	-5.0	-11.3
BEYOND-FIRST-YEAR STUDENTS.....	3,123	3,331	3,178	6.7	-4.6
RESEARCH ASSISTANTSHIPS, TOTAL.....	28,506	28,500	27,249	0	-4.4
FIRST-YEAR STUDENTS.....	5,819	5,731	5,621	-1.5	-1.9
BEYOND-FIRST-YEAR STUDENTS.....	22,687	22,769	21,628	.4	-5.0
U. S. CITIZENS, TOTAL.....	20,094	19,977	19,561	-.6	-2.2
FIRST-YEAR STUDENTS.....	4,066	4,144	4,376	1.9	5.6
BEYOND-FIRST-YEAR STUDENTS.....	16,028	15,833	15,185	-1.2	-4.2
FOREIGN STUDENTS, TOTAL.....	8,412	8,523	7,708	1.3	-9.6
FIRST-YEAR STUDENTS.....	1,753	1,587	1,245	-9.5	-21.6
BEYOND-FIRST-YEAR STUDENTS.....	6,659	6,936	6,463	4.2	-6.8
TEACHING ASSISTANTSHIPS, TOTAL.....	31,221	32,616	32,335	4.5	-.9
FIRST-YEAR STUDENTS.....	10,658	9,989	9,520	-6.3	-4.7
BEYOND-FIRST-YEAR STUDENTS.....	20,563	22,627	22,815	10.0	.8
U. S. CITIZENS, TOTAL.....	25,079	26,124	26,143	4.2	.1
FIRST-YEAR STUDENTS.....	8,629	8,296	8,028	-3.9	-3.2
BEYOND-FIRST-YEAR STUDENTS.....	16,450	17,828	18,115	8.4	1.6
FOREIGN STUDENTS, TOTAL.....	6,142	6,492	6,192	5.7	-4.6

FOREIGN STUDENTS, TOTAL.....	26,167	27,178	26,539	3.9	-2.4
FIRST-YEAR STUDENTS.....	9,108	8,600	7,841	-5.6	-8.8
BEYOND-FIRST-YEAR STUDENTS.....	17,059	18,578	18,698	8.9	.6
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	38,972	36,453	32,988	-6.5	-9.5
FIRST-YEAR STUDENTS.....	11,638	11,213	9,280	-3.7	-17.2
BEYOND-FIRST-YEAR STUDENTS.....	27,334	25,240	23,708	-7.7	-6.1
U. S. CITIZENS, TOTAL.....	34,011	31,376	28,261	-7.7	-9.9
FIRST-YEAR STUDENTS.....	9,800	9,467	7,731	-3.4	-18.3
BEYOND-FIRST-YEAR STUDENTS.....	24,211	21,909	20,530	-9.5	-6.3
FOREIGN STUDENTS, TOTAL.....	4,961	5,077	4,727	2.3	-6.9
FIRST-YEAR STUDENTS.....	1,838	1,746	1,549	-5.0	-11.3
BEYOND-FIRST-YEAR STUDENTS.....	3,123	3,331	3,178	6.7	-4.6
RESEARCH ASSISTANTSHIPS, TOTAL.....	28,506	28,500	27,249	0	-4.4
FIRST-YEAR STUDENTS.....	5,819	5,731	5,621	-1.5	-1.9
BEYOND-FIRST-YEAR STUDENTS.....	22,687	22,769	21,628	.4	-5.0
U. S. CITIZENS, TOTAL.....	20,044	19,977	19,561	-6	-2.2
FIRST-YEAR STUDENTS.....	4,066	4,144	4,376	1.9	5.6
BEYOND-FIRST-YEAR STUDENTS.....	16,028	15,833	15,185	-1.2	-4.2
FOREIGN STUDENTS, TOTAL.....	8,412	8,523	7,708	1.3	-9.6
FIRST-YEAR STUDENTS.....	1,753	1,587	1,245	-9.5	-21.6
BEYOND-FIRST-YEAR STUDENTS.....	6,659	6,936	6,463	4.2	-6.8
TEACHING ASSISTANTSHIPS, TOTAL.....	31,221	32,616	32,335	4.5	-2.9
FIRST-YEAR STUDENTS.....	10,658	9,989	9,520	-6.3	-4.7
BEYOND-FIRST-YEAR STUDENTS.....	20,563	22,627	22,815	10.0	.8
U. S. CITIZENS, TOTAL.....	25,079	26,124	26,143	4.2	.1
FIRST-YEAR STUDENTS.....	8,629	8,296	8,028	-3.9	-3.2
BEYOND-FIRST-YEAR STUDENTS.....	16,450	17,828	18,115	8.4	1.6
FOREIGN STUDENTS, TOTAL.....	6,142	6,492	6,192	5.7	-4.6
FIRST-YEAR STUDENTS.....	2,029	1,693	1,492	-16.6	-11.9
BEYOND-FIRST-YEAR STUDENTS.....	4,113	4,799	4,700	16.7	-2.1
OTHER TYPES OF MAJOR SUPPORT, TOTAL...	33,236	34,333	37,367	3.3	8.8
FIRST-YEAR STUDENTS.....	15,029	15,266	15,648	1.6	2.5
BEYOND-FIRST-YEAR STUDENTS.....	18,207	19,067	21,719	4.7	13.9
U. S. CITIZENS, TOTAL.....	26,584	27,247	29,455	2.5	8.1
FIRST-YEAR STUDENTS.....	11,541	11,692	12,093	1.3	3.4
BEYOND-FIRST-YEAR STUDENTS.....	15,043	15,555	17,362	3.4	11.6
FOREIGN STUDENTS, TOTAL.....	6,652	7,086	7,912	6.5	11.7
FIRST-YEAR STUDENTS.....	3,488	3,574	3,555	2.5	-2.5
BEYOND-FIRST-YEAR STUDENTS.....	3,164	3,512	4,357	11.0	24.1

0 LESS THAN 0.05 PERCENT CHANGE.

TABLE C-10B. FULL-TIME GRADUATE STUDENTS IN ENGINEERING DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1969-71

ITEM	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
ALL SCIENCES, TOTAL.....	28,793	29,534	28,945	2.6	-2.0
FIRST-YEAR STUDENTS.....	11,189	11,710	11,154	4.7	-4.7
BEYOND-FIRST-YEAR STUDENTS.....	17,604	17,824	17,791	1.2	-.2
CITIZENSHIP					
U. S. CITIZENS, TOTAL.....	18,617	18,841	18,581	1.2	-1.4
FIRST-YEAR STUDENTS.....	7,091	7,803	7,625	10.0	-2.3
BEYOND-FIRST-YEAR STUDENTS.....	11,526	11,038	10,956	-4.2	-.7
FOREIGN STUDENTS, TOTAL.....	10,176	10,693	10,364	5.1	-3.1
FIRST-YEAR STUDENTS.....	4,098	3,907	3,529	-4.7	-9.7
BEYOND-FIRST-YEAR STUDENTS.....	6,078	6,786	6,835	11.6	.7
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	7,571	7,083	6,334	-6.4	-10.6
FIRST-YEAR STUDENTS.....	2,864	2,951	2,620	3.0	-11.2
BEYOND-FIRST-YEAR STUDENTS.....	4,707	4,132	3,714	-12.2	-10.1
U. S. CITIZENS, TOTAL.....	6,171	5,736	5,120	-7.0	-10.7
FIRST-YEAR STUDENTS.....	2,240	2,417	2,104	7.9	-12.9
BEYOND-FIRST-YEAR STUDENTS.....	3,931	3,319	3,016	-15.6	-9.1
FOREIGN STUDENTS, TOTAL.....	1,400	1,347	1,214	-3.8	-9.9
FIRST-YEAR STUDENTS.....	624	534	516	-14.4	-3.4
BEYOND-FIRST-YEAR STUDENTS.....	776	813	698	4.8	-14.1
RESEARCH ASSISTANTSHIPS, TOTAL.....	8,474	8,824	8,451	4.1	-4.2
FIRST-YEAR STUDENTS.....	2,122	2,246	2,255	5.8	.4
BEYOND-FIRST-YEAR STUDENTS.....	6,352	6,578	6,196	3.6	-5.8
U. S. CITIZENS, TOTAL.....	4,504	4,688	4,761	4.1	1.6
FIRST-YEAR STUDENTS.....	1,157	1,365	1,576	18.0	15.5
BEYOND-FIRST-YEAR STUDENTS.....	3,347	3,323	3,185	-.7	-4.2
FOREIGN STUDENTS, TOTAL.....	3,970	4,136	3,690	4.2	-10.8
FIRST-YEAR STUDENTS.....	965	881	679	-8.7	-22.9
BEYOND-FIRST-YEAR STUDENTS.....	3,005	3,255	3,011	8.3	-7.5
TEACHING ASSISTANTSHIPS, TOTAL.....	3,951	4,154	4,121	5.1	-.8
FIRST-YEAR STUDENTS.....	1,393	1,327	1,318	-4.7	-.7
BEYOND-FIRST-YEAR STUDENTS.....	2,558	2,827	2,803	10.5	-.8
U. S. CITIZENS, TOTAL.....	2,317	2,449	2,595	7.4	4.3
FIRST-YEAR STUDENTS.....	839	924	992	10.1	7.4
BEYOND-FIRST-YEAR STUDENTS.....	1,478	1,565	1,603	5.9	2.4
FOREIGN STUDENTS, TOTAL.....	1,634	1,665	1,526	1.9	-8.3
FIRST-YEAR STUDENTS.....	554	403	326	-27.3	-19.1
BEYOND-FIRST-YEAR STUDENTS.....	1,080	1,262	1,200	16.9	-4.9
OTHER TYPES OF MAJOR SUPPORT, TOTAL...	8,797	9,473	10,039	7.7	6.0
FIRST-YEAR STUDENTS.....	4,810	5,186	4,961	7.8	-4.3

U. S. CITIZENS, TOTAL.....	18,841	18,581	1.2	-1.4
FIRST-YEAR STUDENTS.....	7,091	7,625	10.0	-2.3
BEYOND-FIRST-YEAR STUDENTS.....	11,750	10,956	-4.2	-7.7
FOREIGN STUDENTS, TOTAL.....	10,176	10,364	5.1	-3.1
FIRST-YEAR STUDENTS.....	4,098	3,529	-4.7	-9.7
BEYOND-FIRST-YEAR STUDENTS.....	6,078	6,835	11.6	.7
TYPE OF MAJOR SUPPORT				
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	7,571	7,083	-6.4	-10.6
FIRST-YEAR STUDENTS.....	2,864	2,951	3.0	-11.2
BEYOND-FIRST-YEAR STUDENTS.....	4,707	4,132	-12.2	-10.1
U. S. CITIZENS, TOTAL.....	6,171	5,736	-7.0	-10.7
FIRST-YEAR STUDENTS.....	2,240	2,104	7.9	-12.9
BEYOND-FIRST-YEAR STUDENTS.....	3,931	3,632	-7.6	-9.1
FOREIGN STUDENTS, TOTAL.....	1,400	1,347	-3.8	-9.9
FIRST-YEAR STUDENTS.....	624	534	-14.4	-3.4
BEYOND-FIRST-YEAR STUDENTS.....	776	813	4.8	-14.1
RESEARCH ASSISTANTSHIPS, TOTAL.....	8,474	8,451	4.1	-4.2
FIRST-YEAR STUDENTS.....	2,122	2,246	5.8	.4
BEYOND-FIRST-YEAR STUDENTS.....	6,352	6,205	3.6	-5.8
U. S. CITIZENS, TOTAL.....	4,504	4,761	4.1	1.6
FIRST-YEAR STUDENTS.....	1,157	1,576	18.0	15.5
BEYOND-FIRST-YEAR STUDENTS.....	3,347	3,185	-7.7	-4.2
FOREIGN STUDENTS, TOTAL.....	3,970	3,690	-4.2	-10.8
FIRST-YEAR STUDENTS.....	965	679	-8.7	-22.9
BEYOND-FIRST-YEAR STUDENTS.....	3,005	3,011	8.3	-7.5
TEACHING ASSISTANTSHIPS, TOTAL.....	3,951	4,121	5.1	-8.8
FIRST-YEAR STUDENTS.....	1,393	1,318	-4.7	-7.7
BEYOND-FIRST-YEAR STUDENTS.....	2,558	2,803	10.5	-8.8
U. S. CITIZENS, TOTAL.....	2,317	2,595	7.4	4.3
FIRST-YEAR STUDENTS.....	839	924	10.1	7.4
BEYOND-FIRST-YEAR STUDENTS.....	1,478	1,671	5.9	2.4
FOREIGN STUDENTS, TOTAL.....	1,634	1,526	1.9	-8.3
FIRST-YEAR STUDENTS.....	554	326	-27.3	-19.1
BEYOND-FIRST-YEAR STUDENTS.....	1,080	1,200	16.9	-4.9
OTHER TYPES OF MAJOR SUPPORT, TOTAL...	8,797	10,039	7.7	6.0
FIRST-YEAR STUDENTS.....	4,810	4,961	7.8	-4.3
BEYOND-FIRST-YEAR STUDENTS.....	3,987	5,078	7.5	18.5
U. S. CITIZENS, TOTAL.....	5,625	6,105	5.4	3.0
FIRST-YEAR STUDENTS.....	2,855	2,953	8.5	-4.6
BEYOND-FIRST-YEAR STUDENTS.....	2,770	3,152	2.2	11.3
FOREIGN STUDENTS, TOTAL.....	3,172	3,934	11.8	11.0
FIRST-YEAR STUDENTS.....	1,955	2,008	6.9	-3.9
BEYOND-FIRST-YEAR STUDENTS.....	1,217	1,926	19.6	32.3

TABLE C-102 FULL-TIME GRADUATE STUDENTS IN PHYSICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS,
BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1969-71

ITEM	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
ALL SCIENCES, TOTAL.....	29,253	28,264	27,056	-3.4	-4.3
FIRST-YEAR STUDENTS.....	7,795	7,066	6,609	-9.4	-6.5
BEYOND-FIRST-YEAR STUDENTS.....	21,458	21,198	20,447	-1.2	-3.5
CITIZENSHIP					
U. S. CITIZENS, TOTAL.....	23,719	22,612	21,560	-4.7	-4.7
FIRST-YEAR STUDENTS.....	6,175	5,617	5,316	-9.0	-5.4
BEYOND-FIRST-YEAR STUDENTS.....	17,544	16,995	16,244	-3.1	-4.4
FOREIGN STUDENTS, TOTAL.....	5,534	5,652	5,496	2.1	-2.8
FIRST-YEAR STUDENTS.....	1,620	1,449	1,293	-10.6	-10.8
BEYOND-FIRST-YEAR STUDENTS.....	3,914	4,203	4,203	7.4	0
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	6,878	5,958	5,027	-13.4	-15.6
FIRST-YEAR STUDENTS.....	1,665	1,535	1,129	-7.8	-26.4
BEYOND-FIRST-YEAR STUDENTS.....	5,213	4,423	3,898	-15.2	-11.9
U. S. CITIZENS, TOTAL.....	6,109	5,213	4,344	-14.7	-16.7
FIRST-YEAR STUDENTS.....	1,413	1,318	933	-6.7	-29.2
BEYOND-FIRST-YEAR STUDENTS.....	4,696	3,895	3,411	-17.1	-12.4
FOREIGN STUDENTS, TOTAL.....	769	745	683	-3.1	-8.3
FIRST-YEAR STUDENTS.....	252	217	196	-13.9	-9.7
BEYOND-FIRST-YEAR STUDENTS.....	517	528	487	2.1	-7.8
RESEARCH ASSISTANTSHIPS, TOTAL.....	9,218	8,800	8,248	-4.5	-6.3
FIRST-YEAR STUDENTS.....	853	763	728	-10.6	-4.6
BEYOND-FIRST-YEAR STUDENTS.....	8,365	8,037	7,520	-3.9	-6.4
U. S. CITIZENS, TOTAL.....	7,175	6,799	6,349	-5.2	-6.6
FIRST-YEAR STUDENTS.....	612	555	584	-9.3	5.2
BEYOND-FIRST-YEAR STUDENTS.....	6,563	6,244	5,765	-4.9	-7.7
FOREIGN STUDENTS, TOTAL.....	2,043	2,001	1,899	-2.1	-5.1
FIRST-YEAR STUDENTS.....	241	208	144	-13.7	-30.8
BEYOND-FIRST-YEAR STUDENTS.....	1,802	1,793	1,755	-.5	-2.1
TEACHING ASSISTANTSHIPS, TOTAL.....	9,797	10,199	10,081	4.1	-1.2
FIRST-YEAR STUDENTS.....	3,957	3,592	3,450	-9.2	-4.0
BEYOND-FIRST-YEAR STUDENTS.....	5,840	6,607	6,631	13.1	.4
U. S. CITIZENS, TOTAL.....	7,754	7,929	7,859	2.3	-.9
FIRST-YEAR STUDENTS.....	3,192	2,877	2,781	-9.9	-3.3
BEYOND-FIRST-YEAR STUDENTS.....	4,562	5,052	5,078	10.7	.5
FOREIGN STUDENTS, TOTAL.....	2,043	2,270	2,222	11.1	-2.1
FIRST-YEAR STUDENTS.....	765	715	649	-6.5	-9.4

TYPE OF MAJOR SUPPORT

BEYOND-FIRST-YEAR STUDENTS.....	17,544	16,995	16,244	-3.1	-4.5
FOREIGN STUDENTS, TOTAL.....	5,534	5,652	5,496	2.1	-2.8
FIRST-YEAR STUDENTS.....	1,620	1,449	1,293	-10.6	-10.8
BEYOND-FIRST-YEAR STUDENTS.....	3,914	4,203	4,203	7.4	0
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...					
FIRST-YEAR STUDENTS.....	1,665	1,535	1,129	-7.8	-26.4
BEYOND-FIRST-YEAR STUDENTS.....	5,213	4,423	3,898	-15.2	-11.9
U. S. CITIZENS, TOTAL.....					
FIRST-YEAR STUDENTS.....	1,413	1,318	933	-6.7	-29.2
BEYOND-FIRST-YEAR STUDENTS.....	4,696	3,895	3,411	-17.1	-12.4
FOREIGN STUDENTS, TOTAL.....	769	745	683	-3.1	-8.3
FIRST-YEAR STUDENTS.....	252	217	196	-13.9	-9.7
BEYOND-FIRST-YEAR STUDENTS.....	517	528	487	2.1	-7.8
RESEARCH ASSISTANTSHIPS, TOTAL.....					
FIRST-YEAR STUDENTS.....	853	763	728	-10.6	-4.6
BEYOND-FIRST-YEAR STUDENTS.....	8,365	8,037	7,520	-3.9	-6.4
U. S. CITIZENS, TOTAL.....					
FIRST-YEAR STUDENTS.....	612	555	584	-9.3	5.2
BEYOND-FIRST-YEAR STUDENTS.....	6,563	6,244	5,765	-4.9	-7.7
FOREIGN STUDENTS, TOTAL.....	2,043	2,001	1,899	-2.1	-5.1
FIRST-YEAR STUDENTS.....	241	208	144	-13.7	-30.8
BEYOND-FIRST-YEAR STUDENTS.....	1,802	1,793	1,755	-0.5	-2.1
TEACHING ASSISTANTSHIPS, TOTAL.....					
FIRST-YEAR STUDENTS.....	3,957	3,592	3,450	-9.2	-4.0
BEYOND-FIRST-YEAR STUDENTS.....	5,840	6,607	6,631	13.1	0.4
U. S. CITIZENS, TOTAL.....					
FIRST-YEAR STUDENTS.....	3,192	2,877	2,781	-9.9	-3.3
BEYOND-FIRST-YEAR STUDENTS.....	4,562	5,052	5,078	10.7	0.5
FOREIGN STUDENTS, TOTAL.....	2,043	2,270	2,222	11.1	-2.1
FIRST-YEAR STUDENTS.....	765	715	669	-6.5	-6.4
BEYOND-FIRST-YEAR STUDENTS.....	1,278	1,555	1,553	21.7	-0.1
OTHER TYPES OF MAJOR SUPPORT, TOTAL...					
FIRST-YEAR STUDENTS.....	1,320	1,176	1,302	-10.9	10.7
BEYOND-FIRST-YEAR STUDENTS.....	2,040	2,131	2,398	4.5	12.5
U. S. CITIZENS, TOTAL.....					
FIRST-YEAR STUDENTS.....	958	867	1,018	-9.5	17.4
BEYOND-FIRST-YEAR STUDENTS.....	1,723	1,804	1,990	4.7	10.3
FOREIGN STUDENTS, TOTAL.....	679	636	692	-6.3	8.8
FIRST-YEAR STUDENTS.....	362	309	284	-14.6	-8.1
BEYOND-FIRST-YEAR STUDENTS.....	317	327	408	3.2	24.8

0 LESS THAN 0.05 PERCENT CHANGE.

TABLE C-18D. FULL-TIME GRADUATE STUDENTS IN MATHEMATICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1969-71

ITEM	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
ALL SCIENCES, TOTAL.....	11,349	11,500	11,008	1.3	-4.3
FIRST-YEAR STUDENTS.....	4,060	3,944	3,572	-2.9	-9.4
BEYOND-FIRST-YEAR STUDENTS.....	7,289	7,556	7,436	3.7	-1.6
CITIZENSHIP					
U. S. CITIZENS, TOTAL.....	9,310	9,340	8,840	.3	-5.4
FIRST-YEAR STUDENTS.....	3,366	3,332	2,959	-1.0	-11.2
BEYOND-FIRST-YEAR STUDENTS.....	5,944	6,009	5,881	1.1	-2.1
FOREIGN STUDENTS, TOTAL.....	2,039	2,160	2,168	5.9	.4
FIRST-YEAR STUDENTS.....	694	612	613	-11.8	.2
BEYOND-FIRST-YEAR STUDENTS.....	1,345	1,548	1,555	15.1	.5
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	2,639	2,364	2,039	-10.4	-13.7
FIRST-YEAR STUDENTS.....	908	897	580	-1.2	-35.3
BEYOND-FIRST-YEAR STUDENTS.....	1,731	1,467	1,459	-15.3	-.5
U. S. CITIZENS, TOTAL.....	2,306	2,068	1,764	-10.3	-14.7
FIRST-YEAR STUDENTS.....	763	795	515	4.2	-39.2
BEYOND-FIRST-YEAR STUDENTS.....	1,543	1,273	1,249	-17.5	-1.9
FOREIGN STUDENTS, TOTAL.....	333	296	275	-11.1	-7.1
FIRST-YEAR STUDENTS.....	145	102	65	-29.7	-36.3
BEYOND-FIRST-YEAR STUDENTS.....	188	194	210	3.2	8.2
RESEARCH ASSISTANTSHIPS, TOTAL.....	1,135	1,208	1,005	6.4	-16.8
FIRST-YEAR STUDENTS.....	203	234	195	15.3	-16.7
BEYOND-FIRST-YEAR STUDENTS.....	932	974	810	4.5	-16.8
U. S. CITIZENS, TOTAL.....	796	804	669	1.0	-16.8
FIRST-YEAR STUDENTS.....	131	156	138	19.1	-11.5
BEYOND-FIRST-YEAR STUDENTS.....	665	648	531	-2.6	-18.1
FOREIGN STUDENTS, TOTAL.....	339	404	336	19.2	-16.8
FIRST-YEAR STUDENTS.....	72	78	57	8.3	-26.9
BEYOND-FIRST-YEAR STUDENTS.....	267	326	279	22.1	-14.4
TEACHING ASSISTANTSHIPS, TOTAL.....	4,687	5,131	4,951	9.5	-3.5
FIRST-YEAR STUDENTS.....	1,506	1,546	1,427	2.7	-7.7
BEYOND-FIRST-YEAR STUDENTS.....	3,181	3,585	3,524	12.7	-1.7
U. S. CITIZENS, TOTAL.....	3,781	4,161	4,059	10.1	-2.5

U. S. CITIZENS, TOTAL.....	9,310	9,340	8,840	.3	-5.4
FIRST-YEAR STUDENTS.....	3,366	3,332	2,959	-1.0	-11.2
BEYOND-FIRST-YEAR STUDENTS.....	5,944	6,008	5,881	1.1	-2.1
FOREIGN STUDENTS, TOTAL.....	2,039	2,160	2,168	5.9	.4
FIRST-YEAR STUDENTS.....	694	612	613	-11.8	.2
BEYOND-FIRST-YEAR STUDENTS.....	1,345	1,548	1,555	15.1	.5
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	2,639	2,364	2,039	-10.4	-13.7
FIRST-YEAR STUDENTS.....	908	897	580	-1.2	-35.3
BEYOND-FIRST-YEAR STUDENTS.....	1,731	1,467	1,459	-15.3	-5
U. S. CITIZENS, TOTAL.....	2,306	2,068	1,764	-10.3	-14.7
FIRST-YEAR STUDENTS.....	763	795	515	4.2	-35.2
BEYOND-FIRST-YEAR STUDENTS.....	1,543	1,273	1,249	-17.5	-1.9
FOREIGN STUDENTS, TOTAL.....	333	296	275	-11.1	-7.1
FIRST-YEAR STUDENTS.....	145	102	65	-29.7	-36.3
BEYOND-FIRST-YEAR STUDENTS.....	188	194	210	3.2	8.2
RESEARCH ASSISTANTSHIPS, TOTAL.....	1,135	1,208	1,005	6.4	-16.3
FIRST-YEAR STUDENTS.....	203	234	195	15.3	-16.7
BEYOND-FIRST-YEAR STUDENTS.....	932	974	810	4.5	-16.8
U. S. CITIZENS, TOTAL.....	796	804	669	1.0	-16.8
FIRST-YEAR STUDENTS.....	131	156	138	19.1	-11.5
BEYOND-FIRST-YEAR STUDENTS.....	665	648	531	-2.6	-18.1
FOREIGN STUDENTS, TOTAL.....	339	404	336	19.2	-16.8
FIRST-YEAR STUDENTS.....	72	78	57	8.3	-26.9
BEYOND-FIRST-YEAR STUDENTS.....	267	326	279	22.1	-14.4
TEACHING ASSISTANTSHIPS, TOTAL.....	4,687	5,131	4,951	9.5	-3.5
FIRST-YEAR STUDENTS.....	1,506	1,546	1,427	2.7	-7.7
BEYOND-FIRST-YEAR STUDENTS.....	3,181	3,585	3,524	12.7	-1.7
U. S. CITIZENS, TOTAL.....	3,781	4,161	4,059	10.1	-2.5
FIRST-YEAR STUDENTS.....	1,244	1,308	1,246	5.1	-4.7
BEYOND-FIRST-YEAR STUDENTS.....	2,537	2,853	2,813	12.5	-1.4
FOREIGN STUDENTS, TOTAL.....	906	970	892	7.1	-8.0
FIRST-YEAR STUDENTS.....	262	238	181	-9.2	-23.9
BEYOND-FIRST-YEAR STUDENTS.....	644	732	711	13.7	-2.9
OTHER TYPES OF MAJOR SUPPORT, TOTAL...	2,888	2,797	3,013	-3.2	7.7
FIRST-YEAR STUDENTS.....	1,443	1,267	1,370	-12.2	8.1
BEYOND-FIRST-YEAR STUDENTS.....	1,445	1,530	1,643	5.9	7.4
U. S. CITIZENS, TOTAL.....	2,427	2,307	2,348	-4.9	1.8
FIRST-YEAR STUDENTS.....	1,228	1,073	1,060	-12.6	-1.2
BEYOND-FIRST-YEAR STUDENTS.....	1,199	1,234	1,288	2.9	4.4
FOREIGN STUDENTS, TOTAL.....	461	490	665	6.3	35.7
FIRST-YEAR STUDENTS.....	215	194	310	-9.8	59.8
BEYOND-FIRST-YEAR STUDENTS.....	246	296	355	20.3	19.9

TABLE C-18B. FULL-TIME GRADUATE STUDENTS IN LIFE SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1965-71

ITEM	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
ALL SCIENCES, TOTAL.....	24,665	24,739	24,752	0.4	0.1
FIRST-YEAR STUDENTS.....	7,487	7,297	7,090	-2.5	-2.8
BEYOND-FIRST-YEAR STUDENTS.....	17,158	17,442	17,662	1.7	1.3
CITIZENSHIP					
U. S. CITIZENS, TOTAL.....	20,881	20,980	21,056	.4	.4
FIRST-YEAR STUDENTS.....	6,346	6,278	6,103	-1.1	-2.8
BEYOND-FIRST-YEAR STUDENTS.....	14,542	14,702	14,953	1.1	1.7
FOREIGN STUDENTS, TOTAL.....	3,757	3,759	3,696	.1	-1.7
FIRST-YEAR STUDENTS.....	1,141	1,019	987	-10.7	-3.1
BEYOND-FIRST-YEAR STUDENTS.....	2,616	2,740	2,709	4.7	-1.1
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	8,613	8,092	7,407	-6.0	-8.5
FIRST-YEAR STUDENTS.....	2,009	1,903	1,564	-5.3	-17.8
BEYOND-FIRST-YEAR STUDENTS.....	6,604	6,189	5,843	-6.3	-5.6
U. S. CITIZENS, TOTAL.....	7,769	7,177	6,552	-7.6	-8.7
FIRST-YEAR STUDENTS.....	1,762	1,648	1,333	-6.5	-19.1
BEYOND-FIRST-YEAR STUDENTS.....	6,007	5,529	5,219	-8.0	-5.6
FOREIGN STUDENTS, TOTAL.....	844	915	855	8.4	-6.6
FIRST-YEAR STUDENTS.....	247	255	231	3.2	-9.4
BEYOND-FIRST-YEAR STUDENTS.....	597	660	624	10.6	-5.5
RESEARCH ASSISTANTSHIPS, TOTAL.....	5,626	5,649	5,536	.4	-2.0
FIRST-YEAR STUDENTS.....	1,430	1,289	1,280	-9.9	-.7
BEYOND-FIRST-YEAR STUDENTS.....	4,196	4,360	4,256	3.9	-2.4
U. S. CITIZENS, TOTAL.....	4,210	4,309	4,338	2.4	.7
FIRST-YEAR STUDENTS.....	1,104	1,037	1,052	-6.1	1.4
BEYOND-FIRST-YEAR STUDENTS.....	3,106	3,272	3,286	5.3	.4
FOREIGN STUDENTS, TOTAL.....	1,416	1,340	1,198	-5.4	-10.6
FIRST-YEAR STUDENTS.....	326	252	228	-22.7	-9.5
BEYOND-FIRST-YEAR STUDENTS.....	1,090	1,088	970	-.2	-10.8
TEACHING ASSISTANTSHIPS, TOTAL.....	5,575	5,754	5,765	3.2	.2
FIRST-YEAR STUDENTS.....	1,923	1,809	1,643	-5.9	-9.2
BEYOND-FIRST-YEAR STUDENTS.....	3,652	3,945	4,122	8.0	4.5
U. S. CITIZENS, TOTAL.....	4,910	5,068	5,061	3.2	-.1
FIRST-YEAR STUDENTS.....	1,703	1,657	1,480	-2.7	-10.7
BEYOND-FIRST-YEAR STUDENTS.....	3,207	3,411	3,581	6.4	5.0
FOREIGN STUDENTS, TOTAL.....	665	686	704	3.2	2.6

FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	8,613	8,092	7,407	-6.0	-8.5
FIRST-YEAR STUDENTS.....	2,009	1,903	1,564	-5.3	-17.8
BEYOND-FIRST-YEAR STUDENTS.....	6,604	6,189	5,843	-6.3	-5.6
U. S. CITIZENS, TOTAL.....	7,769	7,177	6,552	-7.6	-8.7
FIRST-YEAR STUDENTS.....	1,762	1,648	1,333	-6.5	-19.1
BEYOND-FIRST-YEAR STUDENTS.....	6,007	5,529	5,219	-8.0	-5.6
FOREIGN STUDENTS, TOTAL.....	844	915	855	8.4	-6.6
FIRST-YEAR STUDENTS.....	247	255	231	3.2	-9.4
BEYOND-FIRST-YEAR STUDENTS.....	597	660	624	10.6	-5.5
RESEARCH ASSISTANTSHIPS, TOTAL.....	5,626	5,649	5,536	.4	-2.0
FIRST-YEAR STUDENTS.....	1,430	1,289	1,280	-9.9	-7
BEYOND-FIRST-YEAR STUDENTS.....	4,196	4,360	4,256	3.9	-2.4
U. S. CITIZENS, TOTAL.....	4,210	4,309	4,338	2.4	.7
FIRST-YEAR STUDENTS.....	1,104	1,037	1,052	-6.1	1.4
BEYOND-FIRST-YEAR STUDENTS.....	3,106	3,272	3,286	5.3	.4
FOREIGN STUDENTS, TOTAL.....	1,416	1,340	1,198	-5.4	-10.6
FIRST-YEAR STUDENTS.....	326	252	228	-22.7	-9.5
BEYOND-FIRST-YEAR STUDENTS.....	1,090	1,088	970	-2	-10.8
TEACHING ASSISTANTSHIPS, TOTAL.....	5,575	5,754	5,765	3.2	.2
FIRST-YEAR STUDENTS.....	1,923	1,809	1,643	-5.9	-9.2
BEYOND-FIRST-YEAR STUDENTS.....	3,652	3,945	4,122	8.0	4.5
U. S. CITIZENS, TOTAL.....	4,910	5,068	5,061	3.2	-.1
FIRST-YEAR STUDENTS.....	1,703	1,657	1,480	-2.7	-10.7
BEYOND-FIRST-YEAR STUDENTS.....	3,207	3,411	3,581	6.4	5.0
FOREIGN STUDENTS, TOTAL.....	665	686	704	3.2	2.6
FIRST-YEAR STUDENTS.....	220	152	163	-30.9	7.2
BEYOND-FIRST-YEAR STUDENTS.....	445	534	541	20.0	1.3
OTHER TYPES OF MAJOR SUPPORT, TOTAL...	4,831	5,244	6,044	8.5	15.3
FIRST-YEAR STUDENTS.....	2,125	2,296	2,603	8.0	13.4
BEYOND-FIRST-YEAR STUDENTS.....	2,706	2,948	3,441	8.9	16.7
U. S. CITIZENS, TOTAL.....	3,999	4,426	5,105	10.7	15.3
FIRST-YEAR STUDENTS.....	1,777	1,936	2,238	8.9	15.6
BEYOND-FIRST-YEAR STUDENTS.....	2,222	2,490	2,867	12.1	15.1
FOREIGN STUDENTS, TOTAL.....	832	818	939	-1.7	14.8
FIRST-YEAR STUDENTS.....	348	360	365	3.4	1.4
BEYOND-FIRST-YEAR STUDENTS.....	484	458	574	-5.4	25.3

TABLE C-12. FULL-TIME GRADUATE STUDENTS IN PSYCHOLOGY DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1969-71

ITEM	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
ALL SCIENCES, TOTAL.....	11,142	11,272	11,817	1.2	4.8
FIRST-YEAR STUDENTS.....	3,308	3,194	3,200	-3.4	.2
BEYOND-FIRST-YEAR STUDENTS.....	7,834	8,078	8,617	3.1	6.7
CITIZENSHIP					
U. S. CITIZENS, TOTAL.....	10,660	10,818	11,339	1.5	4.8
FIRST-YEAR STUDENTS.....	3,163	3,067	3,065	-3.0	-.1
BEYOND-FIRST-YEAR STUDENTS.....	7,497	7,751	8,274	3.4	6.7
FOREIGN STUDENTS, TOTAL.....	482	454	478	-5.8	5.3
FIRST-YEAR STUDENTS.....	145	127	135	-12.4	6.3
BEYOND-FIRST-YEAR STUDENTS.....	337	327	343	-3.0	4.9
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.....	4,559	4,493	4,225	-1.4	-6.0
FIRST-YEAR STUDENTS.....	1,328	1,260	1,094	-5.1	-13.2
BEYOND-FIRST-YEAR STUDENTS.....	3,231	3,233	3,131	.1	-3.2
U. S. CITIZENS, TOTAL.....	4,444	4,378	4,122	-1.5	-5.8
FIRST-YEAR STUDENTS.....	1,296	1,229	1,065	-5.2	-13.3
BEYOND-FIRST-YEAR STUDENTS.....	3,148	3,149	3,057	.0	-2.9
FOREIGN STUDENTS, TOTAL.....	115	115	103	0	-10.4
FIRST-YEAR STUDENTS.....	32	31	29	0	0
BEYOND-FIRST-YEAR STUDENTS.....	83	84	74	1.2	-11.9
RESEARCH ASSISTANTSHIPS, TOTAL.....	1,539	1,561	1,589	1.4	1.8
FIRST-YEAR STUDENTS.....	510	450	457	-11.8	1.6
BEYOND-FIRST-YEAR STUDENTS.....	1,029	1,111	1,132	8.0	1.9
U. S. CITIZENS, TOTAL.....	1,422	1,447	1,471	1.8	1.7
FIRST-YEAR STUDENTS.....	479	418	422	-12.7	1.0
BEYOND-FIRST-YEAR STUDENTS.....	943	1,029	1,049	9.1	1.9
FOREIGN STUDENTS, TOTAL.....	117	114	118	-2.6	3.5
FIRST-YEAR STUDENTS.....	31	32	35	3	9
BEYOND-FIRST-YEAR STUDENTS.....	86	82	83	-4.7	1.2
TEACHING ASSISTANTSHIPS, TOTAL.....	2,104	2,212	2,299	5.1	3.9
FIRST-YEAR STUDENTS.....	632	569	598	-10.0	5.1
BEYOND-FIRST-YEAR STUDENTS.....	1,472	1,643	1,701	11.6	3.5
U. S. CITIZENS, TOTAL.....	1,983	2,101	2,178	6.0	3.7
FIRST-YEAR STUDENTS.....	599	541	573	-9.7	5.9
BEYOND-FIRST-YEAR STUDENTS.....	1,384	1,560	1,605	12.7	2.9

FOREIGN STUDENTS, TOTAL.....	482	454	478	-5.8	5.3
FIRST-YEAR STUDENTS.....	145	127	135	-12.4	6.3
BEYOND-FIRST-YEAR STUDENTS.....	337	327	343	-3.0	4.9
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	4,559	4,493	4,225	-1.4	-6.0
FIRST-YEAR STUDENTS.....	1,328	1,260	1,094	-5.1	-13.2
BEYOND-FIRST-YEAR STUDENTS.....	3,231	3,233	3,131	.1	-3.2
U. S. CITIZENS, TOTAL.....	4,444	4,378	4,122	-1.5	-5.8
FIRST-YEAR STUDENTS.....	1,296	1,229	1,065	-5.2	-13.3
BEYOND-FIRST-YEAR STUDENTS.....	3,148	3,149	3,057	0	-2.9
FOREIGN STUDENTS, TOTAL.....	115	115	103	0	-10.4
FIRST-YEAR STUDENTS.....	32	31	29	0	0
BEYOND-FIRST-YEAR STUDENTS.....	83	84	74	1.2	-11.9
RESEARCH ASSISTANTSHIPS, TOTAL.....	1,539	1,561	1,589	1.4	1.8
FIRST-YEAR STUDENTS.....	510	450	457	-11.8	1.6
BEYOND-FIRST-YEAR STUDENTS.....	1,029	1,111	1,132	8.0	1.9
U. S. CITIZENS, TOTAL.....	1,422	1,447	1,471	1.8	1.7
FIRST-YEAR STUDENTS.....	479	418	422	-12.7	1.0
BEYOND-FIRST-YEAR STUDENTS.....	943	1,029	1,049	9.1	1.9
FOREIGN STUDENTS, TOTAL.....	117	114	118	-2.6	3.5
FIRST-YEAR STUDENTS.....	31	32	35	0	0
BEYOND-FIRST-YEAR STUDENTS.....	86	82	83	-4.7	1.2
TEACHING ASSISTANTSHIPS, TOTAL.....	2,104	2,212	2,299	5.1	3.9
FIRST-YEAR STUDENTS.....	632	569	598	-10.0	5.1
BEYOND-FIRST-YEAR STUDENTS.....	1,472	1,643	1,701	11.6	3.5
U. S. CITIZENS, TOTAL.....	1,983	2,101	2,178	6.0	3.7
FIRST-YEAR STUDENTS.....	599	541	573	-9.7	5.9
BEYOND-FIRST-YEAR STUDENTS.....	1,384	1,560	1,605	12.7	2.9
FOREIGN STUDENTS, TOTAL.....	121	111	121	-8.3	9.0
FIRST-YEAR STUDENTS.....	33	28	25	0	0
BEYOND-FIRST-YEAR STUDENTS.....	88	83	96	-5.7	15.7
OTHER TYPES OF MAJOR SUPPORT, TOTAL...	2,940	3,006	3,704	2.2	23.2
FIRST-YEAR STUDENTS.....	838	915	1,051	9.2	14.9
BEYOND-FIRST-YEAR STUDENTS.....	2,102	2,091	2,653	-0.5	26.9
U. S. CITIZENS, TOTAL.....	2,811	2,892	3,568	2.9	23.4
FIRST-YEAR STUDENTS.....	789	879	1,005	11.4	14.3
BEYOND-FIRST-YEAR STUDENTS.....	2,022	2,013	2,563	-0.4	27.3
FOREIGN STUDENTS, TOTAL.....	129	114	136	-11.6	19.3
FIRST-YEAR STUDENTS.....	49	36	46	0	0
BEYOND-FIRST-YEAR STUDENTS.....	80	78	90	-2.5	15.4

0 LESS THAN 0.05 PERCENT CHANGE.
 * PERCENT CHANGE IS NOT SHOWN WHEN BASE IS 50 OR LESS.

TABLE C-100. FULL-TIME GRADUATE STUDENTS IN SOCIAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1969-71

ITEM	NUMBER			PERCENT CHANGE	
	1969	1970	1971	1969-70	1970-71
ALL SCIENCES, TOTAL.....	26,753	26,593	26,361	-0.6	-0.9
FIRST-YEAR STUDENTS.....	9,305	8,988	8,444	-3.4	-6.1
BEYOND-FIRST-YEAR STUDENTS.....	17,448	17,605	17,917	.9	1.8
CITIZENSHIP					
U. S. CITIZENS, TOTAL.....	22,574	22,133	22,024	-2.0	-.5
FIRST-YEAR STUDENTS.....	7,895	7,502	7,160	-5.0	-4.6
BEYOND-FIRST-YEAR STUDENTS.....	14,679	14,631	14,864	-.3	1.6
FOREIGN STUDENTS, TOTAL.....	4,179	4,460	4,337	6.7	-2.8
FIRST-YEAR STUDENTS.....	1,410	1,486	1,284	5.4	-13.6
BEYOND-FIRST-YEAR STUDENTS.....	2,769	2,974	3,053	7.4	2.7
TYPE OF MAJOR SUPPORT					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	8,712	8,463	7,956	-2.9	-6.0
FIRST-YEAR STUDENTS.....	2,864	2,667	2,293	-6.9	-14.0
BEYOND-FIRST-YEAR STUDENTS.....	5,848	5,796	5,663	-.9	-2.3
U. S. CITIZENS, TOTAL.....	7,212	6,804	6,359	-5.7	-6.5
FIRST-YEAR STUDENTS.....	2,326	2,060	1,781	-11.4	-13.9
BEYOND-FIRST-YEAR STUDENTS.....	4,886	4,744	4,578	-2.9	-3.5
FOREIGN STUDENTS, TOTAL.....	1,500	1,659	1,597	10.6	-3.7
FIRST-YEAR STUDENTS.....	538	607	512	12.8	-15.7
BEYOND-FIRST-YEAR STUDENTS.....	962	1,052	1,085	9.4	3.1
RESEARCH ASSISTANTSHIPS, TOTAL.....	2,514	2,458	2,420	-2.2	-1.5
FIRST-YEAR STUDENTS.....	701	749	706	6.8	-5.7
BEYOND-FIRST-YEAR STUDENTS.....	1,813	1,709	1,714	-5.7	.3
U. S. CITIZENS, TOTAL.....	1,987	1,930	1,953	-2.9	1.2
FIRST-YEAR STUDENTS.....	583	613	604	5.1	-1.5
BEYOND-FIRST-YEAR STUDENTS.....	1,404	1,317	1,349	-6.2	2.4
FOREIGN STUDENTS, TOTAL.....	527	528	467	.2	-11.6
FIRST-YEAR STUDENTS.....	118	136	102	15.3	-25.0
BEYOND-FIRST-YEAR STUDENTS.....	409	392	365	-4.2	-6.9
TEACHING ASSISTANTSHIPS, TOTAL.....	5,107	5,166	5,118	1.2	-.9
FIRST-YEAR STUDENTS.....	1,247	1,146	1,084	-8.1	-5.4
BEYOND-FIRST-YEAR STUDENTS.....	3,860	4,020	4,034	4.1	.3
U. S. CITIZENS, TOTAL.....	4,334	4,376	4,391	1.0	.3
FIRST-YEAR STUDENTS.....	1,052	989	956	-6.0	-3.3
BEYOND-FIRST-YEAR STUDENTS.....	3,282	3,387	3,435	3.2	1.4
FOREIGN STUDENTS, TOTAL.....	773	790	727	2.2	-8.0

FIRST-YEAR STUDENTS.....	14,631	14,866	-2.3	1.6
BEYOND-FIRST-YEAR STUDENTS.....				
FOREIGN STUDENTS, TOTAL.....	4,179	4,337	6.7	-2.8
FIRST-YEAR STUDENTS.....	1,410	1,284	5.4	-13.6
BEYOND-FIRST-YEAR STUDENTS.....	2,769	3,053	7.4	2.7
TYPE OF MAJOR SUPPORT				
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	8,712	7,956	-2.9	-6.0
FIRST-YEAR STUDENTS.....	2,864	2,293	-6.9	-14.0
BEYOND-FIRST-YEAR STUDENTS.....	5,848	5,663	-9	-2.3
U. S. CITIZENS, TOTAL.....	7,212	6,359	-5.7	-6.5
FIRST-YEAR STUDENTS.....	2,326	1,781	-11.4	-13.5
BEYOND-FIRST-YEAR STUDENTS.....	4,886	4,578	-2.9	-3.5
FOREIGN STUDENTS, TOTAL.....	1,500	1,597	10.6	-3.7
FIRST-YEAR STUDENTS.....	538	512	12.8	-15.7
BEYOND-FIRST-YEAR STUDENTS.....	962	1,085	9.4	3.1
RESEARCH ASSISTANTSHIPS, TOTAL.....	2,514	2,420	-2.2	-1.5
FIRST-YEAR STUDENTS.....	701	706	6.8	-5.7
BEYOND-FIRST-YEAR STUDENTS.....	1,813	1,714	-5.7	.3
U. S. CITIZENS, TOTAL.....	1,987	1,953	-2.9	1.2
FIRST-YEAR STUDENTS.....	583	604	5.1	-1.5
BEYOND-FIRST-YEAR STUDENTS.....	1,404	1,349	-6.2	2.4
FOREIGN STUDENTS, TOTAL.....	527	467	-2	-11.6
FIRST-YEAR STUDENTS.....	118	102	15.3	-25.0
BEYOND-FIRST-YEAR STUDENTS.....	409	365	-4.2	-6.9
TEACHING ASSISTANTSHIPS, TOTAL.....	5,107	5,118	1.2	-9
FIRST-YEAR STUDENTS.....	1,247	1,084	-8.1	-5.4
BEYOND-FIRST-YEAR STUDENTS.....	3,860	4,034	4.1	.3
U. S. CITIZENS, TOTAL.....	4,334	4,391	1.0	.3
FIRST-YEAR STUDENTS.....	1,052	956	-6.0	-3.3
BEYOND-FIRST-YEAR STUDENTS.....	3,282	3,435	3.2	1.4
FOREIGN STUDENTS, TOTAL.....	773	727	2.2	-8.0
FIRST-YEAR STUDENTS.....	195	128	-19.5	-18.5
BEYOND-FIRST-YEAR STUDENTS.....	578	599	9.5	-5.4
OTHER TYPES OF MAJOR SUPPORT, TOTAL...	10,420	10,867	.8	3.4
FIRST-YEAR STUDENTS.....	4,493	4,361	-1.5	-1.5
BEYOND-FIRST-YEAR STUDENTS.....	5,927	6,506	2.6	7.0
U. S. CITIZENS, TOTAL.....	9,041	9,321	-2	3.3
FIRST-YEAR STUDENTS.....	3,934	3,819	-2.4	-2.5
BEYOND-FIRST-YEAR STUDENTS.....	5,107	5,502	1.5	6.2
FOREIGN STUDENTS, TOTAL.....	1,379	1,546	7.5	4.2
FIRST-YEAR STUDENTS.....	559	542	4.8	-7.5
BEYOND-FIRST-YEAR STUDENTS.....	820	1,004	9.4	11.9

TABLE C-19. FULL-TIME FACULTY IN DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY AREA OF SCIENCE, 1969-71

AREA OF SCIENCE	NUMBER		PERCENT CHANGE	
	1969	1970	1969-70	1970-71
TOTAL.....	50,211	51,379	2.3	0.3
ENGINEERING.....	10,736	10,905	1.6	-1.2
PHYSICAL SCIENCES.....	10,147	10,384	2.3	-1.3
MATHEMATICAL SCIENCES.....	5,419	5,627	3.8	-1.4
LIFE SCIENCES.....	12,244	12,468	1.8	1.9
PSYCHOLOGY.....	3,081	3,255	5.6	5.6
SOCIAL SCIENCES.....	8,544	8,772	2.7	.9
ALL FULL-TIME FACULTY		51,528		
TOTAL.....	42,109	43,820	4.1	.7
ENGINEERING.....	8,948	9,218	3.0	.3
PHYSICAL SCIENCES.....	9,086	9,337	2.8	-6.6
MATHEMATICAL SCIENCES.....	4,284	4,573	6.7	-2
LIFE SCIENCES.....	10,021	10,277	2.6	3.2
PSYCHOLOGY.....	703	2,974	10.0	-2.2
SOCIAL SCIENCES.....	-1,067	7,441	5.3	.2
GRADUATE FACULTY		44,125		

TABLE C-20. POSTDOCTORALS IN DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR THREE YEARS, BY AREA OF SCIENCE, 1969-71

AREA OF SCIENCE	NUMBER		PERCENT CHANGE	
	1969	1970	1969-70	1970-71
TOTAL.....	7,996	8,013	0.2	5.3
ENGINEERING.....	732	735	.4	12.5
PHYSICAL SCIENCES.....	3,747	3,672	-2.0	7.4
MATHEMATICAL SCIENCES.....	231	226	-2.2	-6.2
LIFE SCIENCES.....	2,821	2,953	4.7	2.1
PSYCHOLOGY.....	220	222	5.5	4.7
SOCIAL SCIENCES.....	245	195	-20.4	.0
ALL POSTDOCTORAL APPOINTEES		8,438		
TOTAL.....	5,394	5,463	1.3	10.6
ENGINEERING.....	474	452	-4.6	17.0
PHYSICAL SCIENCES.....	2,808	2,808	-2.8	8.9
MATHEMATICAL SCIENCES.....	135	134	6.7	-6.9
LIFE SCIENCES.....	1,676	2,065	9.3	12.7
PSYCHOLOGY.....	132	145	9.8	26.7
SOCIAL SCIENCES.....	89	82	-7.9	-2.4
RECENT DOCTORALS		6,040		

APPENDIX D

Instructions and Consolidated Departmental Data Sheets (NSF Form 345) — Doctorate Departments

Table	Page
D-1. All sciences, 2,990 departments	82
D-2. Engineering, 664 departments	83
D-3. Physical sciences, 524 departments	84
D-4. Mathematical sciences, 214 departments	85
D-5. Life sciences, 924 departments	86
D-6. Psychology, 147 departments	87
D-7. Social sciences, 517 departments	88
D-8. Public institutions	89
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INSTRUCTIONS FOR COMPLETING THE DEPARTMENTAL DATA SHEET

For further information on the Graduate Traineeship Program, refer to the Announcement (E 71-G-5). Completed copies of the Departmental Data Sheet should be forwarded to the designated Coordinating Official at the institution. Copies of the form should be prepared in sufficient numbers and in time so that the institution can complete its review and forward three (3) copies (reproductions of the original, not carbons) of each sheet being submitted, to reach the National Science Foundation not later than October 16, 1971.

Item 5—

Give the numbers of degrees conferred between 7/1/70 and 6/30/71. Under A insert the number of bachelor's degrees (include five year professional degrees). Under B insert the number of master's degrees (excluding degrees in the teaching of science e.g. M.A.T.). Under C insert the number of master's degrees in the teaching of science (e.g., M.A.T.). Under D insert the number of doctoral degrees. Degrees awarded jointly by two or more departments should be recorded on one departmental data sheet only.

Item 6—

A full-time graduate student is defined here as a bona fide graduate student (not a regular staff member, e.g., an instructor) who is engaged entirely in training activities in his field of science; these activities may embrace any appropriate combination of study, teaching, and research. (Some institutions use the phrase "geographical full-time student" to describe such students).

A first-year graduate student is defined for this program as one who will have completed less than one normal year of graduate study as of the beginning of the Fall term of 1971. All other students should be considered beyond first level.

Insert in each appropriate box the number of students who are simultaneously (a) full-time graduate students (defined above), (b) enrolled in an advanced degree program, and (c) receiving a total stipend of \$1200 or more—not counting tuition and excluding personal, family and loan sources—during the 1971-1972 academic year.

All students meeting criteria (a) and (b), but not (c), should be counted under "Self, Loans and Family." Full-time graduate students working for an advanced degree who are employees of another organization, on leave of absence, and whose major support is provided by their employer, should be listed by type of employer (e.g., industry). If a graduate student receives stipend support from more than one source, choose the major source. For cases of two or more equivalent sources choose one major source category so that using only whole numbers the departmental data sheet will give a reasonably accurate average support picture for the department.

Care should be used in listing support sources accurately so that students (particularly research assistants) supported under U. S. Government grants are listed under the appropriate U. S. Government agency (e.g. students supported on a AEC research grant should appear under AEC and students supported under an NSF Institutional Grant should appear under NSF, not under "This Institution").

Each row total given under ALL SOURCES is to be split into two components, First Year and Beyond First. Thus every full-time graduate student enrolled for an advanced degree is counted only once by major source of support and once again in a separate breakout by level (First Year or Beyond First) of study.

Item 8—

These students are often called "special" or "non-degree" students. "Special" or "non-degree" students are those students possessing an

undergraduate degree who are enrolled in one or more graduate courses in the department Fall 1971, but who are not enrolled for an advanced degree (they have not been admitted to graduate school).

Item 9—

The numbers of graduate students who are working for advanced degrees, but who are not pursuing graduate work full-time are enumerated under the four entries for part-time. Do not include "special" students who are not enrolled for advanced degrees (given in item 8) or students who have left your institution but are completing their theses while engaged in other activities.

Item 10—

For items A, B, and C, only faculty of academic rank of instructor or above, who are significantly involved (i.e., teaching one or more courses or seminars and/or directing the research of one or more students) in the graduate and/or undergraduate academic program of the department as of the Fall 1971 should be counted, including faculty on sabbatical leave who are expected to return. Visiting professors should not be counted. Do not count postdoctorals or research associates: they are counted under item 11. Under A, give the number of full-time faculty who are staff (including the department head) of academic rank instructor or above with a full-time appointment in the department and whose major responsibilities are with the academic programs of the department. (A faculty member should be counted as full-time in only one department). Under B, give the number of faculty included under A who do not teach any regularly scheduled courses (research professors, research associates of professorial academic rank, etc.). Under C, give the number of faculty included under A who are significantly involved in the graduate academic program of the department (i.e., teaching one or more graduate courses or seminars and/or directing the research of one or more graduate students).

Under D, give the number of part-time graduate faculty (part-time in this department), defined to include all faculty who are significantly involved in the graduate academic program (see C, above) but whose major responsibilities or activities are outside the department. Part-time will usually include senior university administrators (deans, etc.) affiliate or adjunct professors (from other departments or outside the university), professors emeriti, experiment laboratory or extension service staff, museum staff, etc.

Item 11—

Postdoctorals or Research Associates include individuals with a doctorate (including foreign degrees that are equivalent to U.S. doctorates) who devote full-time to research activities or study in the department under temporary appointments carrying no academic rank (instructor or above). Such appointments are usually for a specific time period. They may contribute to the academic program through seminars, lectures, or working with graduate students. Their postdoctoral activities have an element of additional training for them.

Under A, give the total number of Postdoctorals and/or Research Associates as defined above, as of the Fall of 1971. Of this number enter under B the number who are teaching one or more regularly scheduled courses; under C, give the number of Postdoctorals and/or Research Associates (defined above) who received their doctorates in 1966 or later.

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

- ## SUMMARY OF

7. The number of students included in the above table (item 6) who are: (A) supported with full tuition from this institution 37,550. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.	(B) performing some regular <u>teaching</u> activity but who do <u>not</u> receive their <u>major</u> support from a graduate teaching assistantship 8,976.	(C) receiving support from <u>more than one</u> source, exclusive of self, loans, and family 8,782.	8. Number of graduate students in this category 54,208. an additional 1,000
--	--	--	--

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
57,363	2,749	48,826	9,226

- | | | |
|-------|----------|------------------|
| Total | Teaching | Recent Doctorals |
| 9,250 | 886 | 6,548 |

FOUNDATION GRADUATE TRAINEESHIPS FOR 1972
DEPARTMENTAL DATA SHEET
(OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

Reporting Institutions Applying in the 1972 GTP.
90 Doctorate Science Departments

Name _____ Title _____
(ONE ONLY) Masters ☐ Ph.D. ☒
BS 110,005 MS 32,551 MAT 1,748 Ph.D. 17,613
also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT., etc. Ph.D., D.Sc., etc.

Table D-1

SUMMARY OF RESPONSES FOR FALL 1971

U.S. GOVERNMENT (EXCLUDING LOANS)									OTHER U.S. (NON U.S. GOVERNMENT)							Foreign sources	ALL SOURCES		
USDA	DOD	HEW			N/ASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other	Other U. S. Sub-totals			Total	First year	Beyond first
		NDEA	PHS (NIH)	OTHER HEW															
(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(e-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)		(p)	(q)	(r)
28 11	299 20	4,720 25	8,367 144	973 21	434 36	5,402	1,861 599	22,327 855	5,442 1,688	1,768 825	1,196 179		260 149	8,666 2,841	42 1,372		31,035 5,068	8,708 1,660	22,327 3,408
675 206	2,106 1,174	31 5	2,142 705	301 54	835 339	4,090 1,719	1,876 855	13,342 5,560	6,293 2,126	749 256	706 323		223 43	7,971 2,748	47		21,313 8,355	4,949 1,360	16,364 6,995
			58 14	24 5		164 25	108 33	354 77	27,928 6,514	100 16	9 7		119 16	28,156 6,553			28,510 6,630	8,896 1,597	19,614 5,033
54 9	1,003 27	15	97 11	23 3	48 2	178 20	895 182	2,330 256	2,203 421	183 101	1,162 127	25,365 6,511	1,319 411	30,232 7,571	869		32,562 8,696	13,620 3,926	18,942 4,770
757 226	3,408 1,221	4,766 30	10,664 874	1,318 82	1,317 377	9,834 1,764	4,740 1,669	38,353 6,748	41,866 10,749	2,800 1,198	3,073 636	25,365 6,511	1,921 619	75,025 19,713	42 2,288		113,420 28,749	36,173 8,543	77,247 20,206
983	4,629	4,796	11,538	1,400	1,694	11,598	6,409	45,101	52,615	3,998	3,709	31,876	2,540	94,738	2,330		142,169	44,716	97,453

Item 6) who are:

- (B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 8,976.
(C) receiving support from more than one source, exclusive of self, loans, and family 8,782.

B. Number of "special" students enrolled for graduate course work (full- or part-time) in this department who are not enrolled for an advanced degree 8,919.

Students.

GN Beyond 1st 2,667

TOTAL Part time 39,832

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY
Total 57,363 Nonteaching 2,749 Graduate 48,826
PART TIME Graduate 9,226

Doctorals 548

NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972
DEPARTMENTAL DATA SHEET

1. Name and address of institution: 224 Doctorate-granting Institutions Applying in the 1972 GTP.

2. Department (or unit) covered by this data sheet: 664 Engineering Doctorate Departments

3. Person in Department (or unit) preparing this form: Name _____ Title _____

4. Highest degree offered in the Fall of 1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒

5. Number of degrees granted 7/1/70 through 6/30/71: BS 27,165 MS 12,069 MAT 174 Ph.D. 3,720
also BA, etc. also MA, etc. (Ex. MAT., etc. Ph.D. D.Sc., etc.

SLIMM

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1971 (see item 6-instructions)			U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)				
			AEC	USDA	DOD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other
						NDEA	PHS (NIH)	OTHER HEW									
TYPES OF SUPPORT			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)
Fellowships and Traineeships	United States	1	175	2	107	695	640	125	203	1,089	636	3,672	739	299	762		
	Foreign	2		5	6	38	4	26			74	153	431	126	92		
Graduate Research Assistantships	United States	3	208	31	1,018	7	194	34	374	795	641	3,302	1,355	122	328		
	Foreign	4	163	14	813	4	126	17	239	771	523	2,670	945	83	206		
Graduate Teaching Assistantships	United States	5				2				34	17	53	2,691	7	4		
	Foreign	6				4				8	15	27	1,575	2	4		
Other Than Above	United States	7		8	626	1	11		33	5	454	1,144	276	17	726	4,087	2
	Foreign	8	6	1	23		1		2	8	81	116	166	29	84	3,180	1
Total	United States	9	389	41	1,751	703	847	159	610	1,823	1,748	8,171	5,061	445	1,821	4,087	2
	Foreign	10	164	14	841	10	169	21	267	787	693	2,966	3,117	240	386	3,180	1
TOTALS		11	553	55	2,592	713	1,016	180	877	2,710	2,441	11,137	8,178	685	2,207	7,267	4

7. The number of students included in the above table (item 6) who are:		
(A) supported with full tuition from this institution 7,145. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.	(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 1,112.	(C) receiving support from more than one source, exclusive of self, loans, and family 1,761.

9. Part-time graduate students enrolled for advanced degrees Fall 1971 by level of study; do not include "special" students.					10. Numbers of faculty members:				
U. S. CITIZENS		FOREIGN		TOTAL	FULL-TIME DEPARTMENTAL FACULTY			PART TIME	
1st year	Beyond 1st	1st year	Beyond 1st		Total	Nonteaching	Graduate	Graduate	
6,965	7,985	1,066	1,492	17,508	11,624	398	9,954	1,517	

11. Number of Postdoctorals/Research Associates:		
Total	Teaching	Recent Doctorals
913	87	582

SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972
DEPARTMENTAL DATA SHEET
(BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

Doctorate-granting Institutions Applying in the 1972 GTP.

Data sheet: 664 Engineering Doctorate Departments

Filling this form: Name _____

Title _____

1971 (CHECK ONE ONLY) Masters ☐

Ph.D. ☒

Through 6/30/71: BS 27,165

MS 12,069

MAT 174

Ph.D. 3,720

also BA, etc.

also MA, etc. (Ex. MAT, etc.)

MAT., etc.

Ph.D., D.Sc., etc.

Table D-2

SUMMARY OF RESPONSES FOR FALL 1971

U.S. GOVERNMENT (EXCLUDING LOANS)											OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
AEC	USDA	DOD	HEW			NASA	NSF	Other U.S. Government	U.S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other	Other U.S. Sub-totals			Total	First year	Beyond first
			NDEA	PHS (NIH)	OTHER HEW															
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)		(p)	(q)	(r)
175	2	107	695	640	125	203	1,089	636	3,672	739	299	762		28	1,828	14		5,514	2,309	3,205
2		5	6	38	4	26		74	153	431	126	92		36	685	435		1,273	540	733
208	31	1,018	7	194	34	374	795	641	3,302	1,355	122	329		48	1,854			5,156	1,736	3,420
163	14	813	4	126	17	239	771	523	2,670	945	83	206		15	1,249	11		3,930	727	3,203
				2			34	17	53	2,691	7	4		3	2,705			2,758	1,066	1,692
				4			8	15	27	1,575	2	4		1	1,582			1,609	350	1,259
6	8	626	1	11		33	5	454	1,144	276	17	726	4,087	207	5,313			6,457	3,151	3,306
1		23		1		2	8	81	116	186	29	84	3,180	118	3,577	512		4,205	2,140	2,065
389	41	1,751	703	847	159	610	1,923	1,748	8,171	5,061	445	1,821	4,087	286	11,700	14		19,885	8,262	11,623
164	14	841	10	169	21	267	787	693	2,966	3,117	240	386	3,180	170	7,093	958		11,017	3,757	7,260
553	55	2,592	713	1,016	180	877	2,710	2,441	11,137	8,178	685	2,207	7,267	456	18,793	972		30,902	12,019	18,883

above table (item 6) who are:

this institution 7,145.

charging no tuition, but
from the U. S. Government

(B) performing some regular teaching activity
but who do not receive their major support
from a graduate teaching assistantship 1,112.

(C) receiving support from more
than one source, exclusive of
self, loans, and family 1,761.

8. Number of "special" students enrolled for
graduate course work (full- or part-time) in
this department who are not enrolled for
an advanced degree 2,920.

advanced degrees
include "special" students.

FOREIGN TOTAL
year Beyond 1st Part time
066 1,492 17,508

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY PART TIME
Total Nonteaching Graduate Graduate
11,624 398 9,954 1,517

ociates:

Recent Doctorates
582

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

- ## SUMMARY

7. The number of students included in the above table (item 6) who are:

(A) supported with full tuition from this institution 9,792. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.	(B) performing some regular <u>teaching</u> activity but who do <u>not</u> receive their <u>major</u> support from a graduate teaching assistantship 2,254.	(C) receiving support from <u>more than one</u> source, exclusive of self, loans, and family 2,467.
--	---	---

84

PHYSICAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972
DEPARTMENTAL DATA SHEET
(BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

Doctorate-granting Institutions Applying in the 1972 GTP.

Departmental Data Sheet: 524 Physical Sciences Doctorate Departments

Filling this form: Name _____ Title _____

1971 (CHECK ONE ONLY) Masters ☐

Ph.D. ☒

Through 6/30/71: BS 8,922 MS 4,175 MAT 375 Ph.D. 4,235
also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT, etc. Ph.D. D.Sc., etc.

Table D-3

SUMMARY OF RESPONSES FOR FALL 1971

	U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
	AEC	USDA	DOD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub- total	This Institution and State and local government	Private non- profit founda- tions	Industry	Self loans, and family	Other	Other U. S. Sub- totals		Total	First year	Beyond first
				NDEA	PHS (NIH)	OTHER HEW														
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)	(p)	(q)	(r)
1	37		66	945	385	31	118	1,389	129	3,100	906	219	247		18	1,390	7	4,497	979	3,518
2			1	6	10	5	9	37		68	289	83	39		19	430	214	712	202	510
3	985	22	845	5	553	27	401	2,192	464	5,474	686	220	93		76	1,075		6,549	623	5,926
4	295	4	259		178	4	82	646	131	1,599	218	65	43		10	336	10	1,945	156	1,789
5					16	1		48	27	92	8,086	8			31	8,125		8,217	2,934	5,283
6					3			7	8	18	2,306	2			9	2,317		2,335	698	1,637
7	8	1	150	4	6	4	11	43	131	358	234	25	97	2,290	225	2,871		3,229	1,130	2,099
8	1		1			3		2	9	16	51	12	13	484	45	605	104	725	303	422
9	1,010	23	1,061	954	960	63	530	3,672	751	9,024	9,912	472	437	2,290	350	13,461	7	22,492	5,666	16,826
10	296	4	261	6	191	12	91	655	185	1,701	2,864	162	95	484	83	3,688	328	5,717	1,359	4,358
11	1,306	27	1,322	960	1,151	75	621	4,327	936	10,725	12,776	634	532	2,774	433	17,149	335	28,209	7,025	21,184

From the above table (item 6) who are:

(A) performing some regular teaching activity at this institution 9,792.
but who do not receive their major support charging no tuition, but from the U. S. Government

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 2,254.

(C) receiving support from more than one source, exclusive of self, loans, and family 2,467.

B. Number of "special" students enrolled for graduate course work (full- or part-time) in this department who are not enrolled for an advanced degree 944.

For advanced degrees
include "special" students.

FOREIGN
First year 143
Beyond 1st year 225
TOTAL
Part time 3,661

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY
Total 10,919
Nonteaching 352
Graduate 9,710
PART TIME
Graduate 1,013

Associates:

Recent Doctorals
3,085

**NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972
DEPARTMENTAL DATA SHEET**

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

1. Name and address of institution: 224 Doctorate-granting Institutions Applying in the 1972 GTP.
2. Department (or unit) covered by this data sheet: 214 Mathematical Sciences Doctorate Departments
3. Person in Department (or unit) preparing this form: Name _____ Title _____
4. Highest degree offered in the Fall of 1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
5. Number of degrees granted 7/1/70 through 6/30/71: BS 8,373 MS 3,053 MAT 615 Ph.D. 1,231
also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT., etc. Ph.D. D.Sc., etc.

SUMMA

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1971 (see item 6-instructions)		U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)				
		AEC	USDA	DOD	HEW			NASA	NSF	Other U.S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other
					NDEA	PHS (NIH)	OTHER HEW									
TYPES OF SUPPORT		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)
Fellowships and Traineeships	United States	1	1	2	29	358	127	52	40	702	55	1,366	358	78	89	5
	Foreign	2			1	2		1	1	18	22	157	29	8		8
Graduate Research Assistantships	United States	3	35	3	135	2	15		6	227	35	458	247	4	1	
	Foreign	4	17		81	1	9	1	3	134	28	274	84	1		
Graduate Teaching Assistantships	United States	5				1				28	9	38	4,197	6	1	28
	Foreign	6								4	4	931	1	1		
Other Than Above	United States	7		1	57	8	3	1	1	68	40	179	214	8	113	1,984
	Foreign	8				1	1			6	11	18	47	8	9	614
Total	United States	9	36	6	221	368	146	53	47	1,025	139	2,041	5,092	96	204	1,984
	Foreign	10	17		81	2	12	1	4	144	57	318	1,219	38	19	614
TOTALS		11	53	6	302	370	158	54	51	1,169	196	2,359	6,235	134	223	2,598

7. The number of students included in the above table (item 6) who are:
 - (A) supported with full tuition from this institution 3,836. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.
 - (B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 664.
 - (C) receiving support from more than one source, exclusive of self, loans, and family 818.

9. Part-time graduate students enrolled for advanced degrees Fall 1971 by level of study; do not include "special" students.

U. S. CITIZENS		FOREIGN		TOTAL
1st year	Beyond 1st	1st year	Beyond 1st	
1,363	2,124	71	125	

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	
6,000	51	4,962	512

11. Number of Postdoctorals/Research Associates:

Total	Teaching	Recent Doctorals
236	66	148

SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972
DEPARTMENTAL DATA SHEET
BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE

4 Doctorate-granting Institutions Applying in the 1972 GTP.

data sheet: 214 Mathematical Sciences Doctorate Departments

ing this form: Name _____ Title _____

971 (CHECK ONE ONLY) Masters ☐

Ph.D. ☒

ough 6/30/71:

BS 8,373

MS 3,053

MAT 615

Ph.D. 1,231

also BA, etc.

also MA, etc. (Ex.
MAT, etc.)

MAT., etc.

Ph.D. D.Sc., etc.

Table D-4

SUMMARY OF RESPONSES FOR FALL 1971

	U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
	AEC	USDA	DOD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub- total	This Institution and State and local government	Private non- profit founda- tions	Industry	Self loans, and family	Other	Other U. S. Sub- totals		Total	First year	Beyond first
				NDEA	PHS (NIH)	OTHER HEW														
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)	(p)	(q)	(r)
1	1	2	29	358	127	52	40	702	55	1,366	358	78	89		5	530	10	1,906	552	1,354
2				1	2		1		18	22	157	29	8		8	202	90	314	69	245
3	35	3	135	2	15		6	227	35	458	247	4	1			252		710	157	553
4	17		81	1	9	1	3	134	28	274	84		1			85	3	362	57	305
5					1			28	9	38	4,197	6	1		28	4,232		4,270	1,344	2,926
6								4		4	931	1	1			933		937	191	746
7		1	57	8	3	1	1	68	40	179	214	8	113	1,984	67	2,386		2,565	1,182	1,383
8					1			6	11	18	47	8	9	614	19	697	37	752	349	403
9	36	6	221	368	146	53	47	1,025	139	2,041	5,016	96	204	1,984	100	7,400	10	9,451	3,235	6,216
10	17		81	2	12	1	4	144	57	318	1,219	38	19	614	27	1,917	130	2,365	666	1,699
11	53	6	302	370	158	54	51	1,169	196	2,359	6,235	134	223	2,598	127	9,317	140	11,816	3,901	7,915

above table (item 6) who are:

this institution 3,836.

charging no tuition, but

from the U. S. Government

(B) performing some regular teaching activity
but who do not receive their major support
from a graduate teaching assistantship 654.

(C) receiving support from more
than one source, exclusive of
self, loans, and family 818.

8. Number of "special" students enrolled for
graduate course work (full- or part-time) in
this department who are not enrolled for
an advanced degree 1,265.

or advanced degrees
include "special" students.

FOREIGN TOTAL
Part time
Recent year Beyond 1st Part time
71 125 3,683

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY PART TIME
Total Nonteaching Graduate Total Graduate
6,000 51 4,962 512

ociates:

Recent Doctorals
148

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

SUMMARY

7.	The number of students included in the above table (item 6) who are:			8.	
(A)	supported with full tuition from this institution 7,195. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.	(B)	performing some regular <u>teaching</u> activity but who do <u>not</u> receive their <u>major</u> support from a graduate teaching assistantship 2,893.	(C)	receiving support from <u>more than one</u> source, exclusive of self, loans, and family 1,955.

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
15,262	1,481	12,588	4,040

Total	Teaching	Recent Doctorals
3,642	276	2,462

NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972
DEPARTMENTAL DATA SHEET
 (BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

224 Doctorate-granting Institutions Applying in the 1972 GTP.
 This data sheet: 924 Life Sciences Doctorate Departments
 Preparing this form: Name _____ Title _____
 All of 1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
 70 through 6/30/71: BS 20,140 MS 4,426 MAT 374 Ph.D. 3,821
 also BA, etc. also MA, etc. (Ex. MAT., etc.) MAT., etc. Ph.D., D.Sc., etc.

Table D-5
SUMMARY OF RESPONSES FOR FALL 1971

Rate Degrees	U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
	AEC	USDA	DOD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub- total	This Insti- tution and State and local government	Private non- profit founda- tions	Industry	Self loans, and family	Other	Other U. S. Sub- totals		Total	First year	Beyond first
				NDEA	PHS (NIH)	OTHER HEW														
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)	(p)	(q)	(r)
Notes 1 2	33	11 8	32	923 4	3,976 69	165 3	39	1,026	226 183	6,431 267	893 253	307 179	57 29		65 33	1,322 494	4 220	7,757 981	1,655 277	6,102 704
Notes 3 4	66 25	529 161	50 13	6	814 324	34 15	36 13	536 101	460 105	2,531 757	1,971 546	225 71	248 68		62 10	2,506 695		5,037 1,473	1,230 267	3,807 1,206
Notes 5 6					38 7	17 5		19	9 5	83 17	5,639 790	62 7	4 2		34 4	5,739 803		5,822 820	1,722 189	4,100 631
Notes 7 8	3	27 9	23 1	2	41 9	10	3	48 2	96 57	253 78	323 59	31 25	89 16	4,921 652	254 180	5,618 912		5,871 1,127	2,581 455	3,290 672
Notes 9 10	1,072 21	567 178	105 14	931 4	4,869 409	226 23	78 13	1,629 103	791 350	9,298 1,119	8,826 1,648	625 282	398 115	4,921 652	415 207	15,185 2,904	4 378	24,487 4,401	7,188 1,188	17,299 3,213
11	127	745	119	935	5,278	249	91	1,732	1,141	10,417	10,474	907	513	5,573	622	18,069	382	28,888	8,376	20,512

and in the above table (item 6) who are:
 from this institution 7,195.
 charging no tuition, but
 from the U. S. Government
 (B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 2,893.
 (C) receiving support from more than one source, exclusive of self, loans, and family 1,955.
 B. Number of "special" students enrolled for graduate course work (full- or part-time) in this department who are not enrolled for an advanced degree 1,457.

Enrolled for advanced degrees not include "special" students.			10. Numbers of faculty members:					
FOREIGN		TOTAL	FULL-TIME DEPARTMENTAL - FACULTY			PART TIME		
1st year	Beyond 1st	Part time	Total	Nonteaching	Graduate	Graduate		
54	175	3,394	15,262	1,481	12,588	4,040		
Research Associates:								
Recent Doctorals								
2,462								

NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972 DEPARTMENTAL DATA SHEET (NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)																																															
1. Name and address of institution: 224 Doctorate-granting Institutions Applying in the 1972 GTP. 2. Department (or unit) covered by this data sheet: 147 Psychology Doctorate Departments 3. Person in Department (or unit) preparing this form: Name _____ Title _____ 4. Highest degree offered in the Fall of 1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒ 5. Number of degrees granted 7/1/70 through 6/30/71: BS 15,768 MS 2,044 MAT 14 Ph.D. 1,632 also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT., etc. Ph.D., D.Sc., etc.																																															
6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1971 (see item 6--instructions)		U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)																																			
		AEC	USDA	DOD	HEW			NASA	NSF	Other U.S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family																																
					NDEA	PHS (NIH)	OTHER HEW																																								
TYPES OF SUPPORT		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)																																
Fellowships and Traineeships	United States	1		20	395	2,074	194	20	323	504	3,530	633	115	18																																	
	Foreign	2			1	11	2			7	21	38	17																																		
Graduate Research Assistantships	United States	3	3	45	9	479	168	12	169	94	979	541	38	25																																	
	Foreign	4		4		50	7		17	8	86	30	5	2																																	
Graduate Teaching Assistantships	United States	5				1			7	5	13	2,446	2																																		
	Foreign	6										142																																			
Other Than Above	United States	7		9		26	8		1	94	138	621	64	56	2,692																																
	Foreign	8							1	7	8	18	3		98																																
Total	United States	9	3	74	404	2,580	370	32	500	697	4,660	4,241	219	99	2,692																																
	Foreign	10		4	1	61	9		18	22	115	228	25	2	98																																
TOTALS		11	3	78	405	2,641	379	32	518	719	4,775	4,469	244	101	2,790																																
7. The number of students included in the above table (item 6) who are: (A) supported with full tuition from this institution 2,822. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source. (B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 1,008. (C) receiving support from more than one source, exclusive of self, loans, and family 580.																																															
9. Part-time graduate students enrolled for advanced degrees Fall 1971 by level of study; do not include "special" students.										10. Numbers of faculty members:																																					
<table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">U. S. CITIZENS</th> <th colspan="2" style="text-align: center;">FOREIGN</th> <th colspan="2" style="text-align: center;">TOTAL</th> </tr> <tr> <th style="text-align: center;">1st year</th> <th style="text-align: center;">Beyond 1st</th> <th style="text-align: center;">1st year</th> <th style="text-align: center;">Beyond 1st</th> <th style="text-align: center;">Part time</th> <th></th> </tr> <tr> <td style="text-align: center;">378</td> <td style="text-align: center;">1,404</td> <td style="text-align: center;">18</td> <td style="text-align: center;">32</td> <td style="text-align: center;">1,832</td> <td></td> </tr> </table>										U. S. CITIZENS		FOREIGN		TOTAL		1st year	Beyond 1st	1st year	Beyond 1st	Part time		378	1,404	18	32	1,832		<table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align: center;">FULL-TIME DEPARTMENTAL - FACULTY</th> <th colspan="2" style="text-align: center;">PART TIME</th> </tr> <tr> <th style="text-align: center;">Total</th> <th style="text-align: center;">Nonteaching</th> <th style="text-align: center;">Graduate</th> <th style="text-align: center;">Graduate</th> <th></th> </tr> <tr> <td style="text-align: center;">3,603</td> <td style="text-align: center;">88</td> <td style="text-align: center;">3,260</td> <td style="text-align: center;">798</td> <td></td> </tr> </table>					FULL-TIME DEPARTMENTAL - FACULTY			PART TIME		Total	Nonteaching	Graduate	Graduate		3,603	88	3,260	798	
U. S. CITIZENS		FOREIGN		TOTAL																																											
1st year	Beyond 1st	1st year	Beyond 1st	Part time																																											
378	1,404	18	32	1,832																																											
FULL-TIME DEPARTMENTAL - FACULTY			PART TIME																																												
Total	Nonteaching	Graduate	Graduate																																												
3,603	88	3,260	798																																												
11. Number of Postdoctorals/Research Associates:																																															
<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Total</th> <th style="text-align: center;">Teaching</th> <th colspan="3" style="text-align: center;">Recent Doctorals</th> </tr> <tr> <td style="text-align: center;">257</td> <td style="text-align: center;">12</td> <td colspan="3" style="text-align: center;">185</td> </tr> </table>										Total	Teaching	Recent Doctorals			257	12	185																														
Total	Teaching	Recent Doctorals																																													
257	12	185																																													

SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972
DEPARTMENTAL DATA SHEET
FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

Doctorate-granting Institutions Applying in the 1972 GTP.
Sheet: 147 Psychology Doctorate Departments

Name _____ Title _____
(CHECK ONE ONLY) Masters ☐ Ph.D. ☒
6/30/71: BS 15,768 MS 2,044 MAT 14 Ph.D. 1,632
also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT., etc. Ph.D. D.Sc., etc.

Table D-6

SUMMARY OF RESPONSES FOR FALL 1971

U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)						Foreign SOURCES	ALL SOURCES		
AEC	USDA	DOD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other	Other U. S. Sub-totals		Total	First year	Beyond first
			NDEA	PHS (NIH)	OTHER HEW														
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)	(p)	(q)	(r)
		20	395 1	2,074 11	194 2	20	323	504 7	3,530 21	633 38	115 17	18		61 3	827 58	2 32	4,359 111	1,135 32	3,224 79
3		45 4	9	479 50	168 7	12	169 17	94 8	979 86	541 30	38 5	25 2		26 4	630 41	2	1,609 129	484 38	1,125 91
				1			7	5	13	2,446 142	2			5	2,453 142		2,466 142	670 29	1,796 113
		9		26	8		1 1	94 7	138 8	621 18	64 3	56	2,692 98	245 14	3,678 133	8	3,816 149	1,099 54	2,717 95
3		74 4	404 1	2,580 61	370 9	32	500 18	697 22	4,660 115	4,241 228	219 25	99 2	2,692 98	337 21	7,588 374	2 42	12,250 531	3,388 153	8,862 378
3		78	405	2,641	379	32	518	719	4,775	4,469	244	101	2,790	358	7,962	44	12,781	3,541	9,240

above table (item 6) who are:

institution 2,822.
ing no tuition, but
the U. S. Government

(B) performing some regular teaching activity
but who do not receive their major support
from a graduate teaching assistantship 1,008.

(C) receiving support from more
than one source, exclusive of
self, loans, and family 580.

8. Number of "special" students enrolled for
graduate course work (full- or part-time) in
this department who are not enrolled for
an advanced degree 669.

Advanced degrees "special" students.		10: Numbers of faculty members:	
FOREIGN	TOTAL	FULL-TIME DEPARTMENTAL - FACULTY	PART TIME
Beyond 1st	Part time	Total	Graduate
32	1,832	3,603	798
Recent Doctorals 185			

**NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972
DEPARTMENTAL DATA SHEET**

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

SUMMARY OF RE

1. Name and address of institution: 224 Doctorate-granting Institutions Applying in the 1972 GTP.
2. Department (or unit) covered by this data sheet: 517 Social Sciences Doctorate Departments
3. Person in Department (or unit) preparing this form: Name _____ Title _____
4. Highest degree offered in the Fall of 1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
5. Number of degrees granted 7/1/70 through 6/30/71: BS 29,637 MS 6,784 MAT 196 Ph.D. 2,974
also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT., etc. Ph.D., D.Sc., etc.

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1971 (see item 6-instructions)		U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)					
		HEW						NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other	Other U. S. Sub-totals
		AEC	USDA	DOD	NDEA	PHS (NIH)	OTHER HEW										
TYPES OF SUPPORT		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)
Fellowships and Traineeships	United States	1	13	45	1,404	1,165	403	14	873	311	4,228	1,913	750	23		83	2,769
	Foreign	2	3	14	7	14	6			280	324	520	391	11		50	972
Graduate Research Assistantships	United States	3	9	90	13	2	87	38	6	171	182	598	1,493	140	10	11	1,654
	Foreign	4	3	27	4		18	10	2	50	60	174	303	32	3	4	342
Graduate Teaching Assistantships	United States	5					6		28	41	75	4,869	15			18	4,902
	Foreign	6							8	5	11	770	4			2	776
Other Than Above	United States	7	17	138		10			13	80	258	535	38	81	9,391	321	10,366
	Foreign	8		2					1	17	20	80	24	5	1,483	55	1,647
Total	United States	9	9	120	1,406	1,262	447	20	1,085	614	5,159	8,810	943	114	9,391	433	19,691
	Foreign	10	3	30	7	32	16	2	57	362	529	1,673	451	19	1,483	111	3,737
TOTALS		11	12	150	1,413	1,294	463	22	1,142	976	5,688	10,483	1,394	133	10,874	544	23,428

7. The number of students included in the above table (item 6) who are:
 - (A) supported with full tuition from this institution 6,760. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.
 - (B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 1,045.
 - (C) receiving support from more than one source, exclusive of self, loans, and family 1,201.
8. Number of graduate students in this department receiving an advanced degree...

9. Part-time graduate students enrolled for advanced degrees Fall 1971 by level of study; do not include "special" students.

U. S. CITIZENS		FOREIGN		TOTAL
1st year	Beyond 1st	1st year	Beyond 1st	
2,889	6,058	189	618	9,754

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME Graduate
Total	Nonteaching	Graduate	
9,955	379	8,352	1,346

11. Number of Postdoctorals/Research Associates:

Total	Teaching	Recent Doctorals
204	30	86

FOUNDATION GRADUATE TRAINEESHIPS FOR 1972
DEPARTMENTAL DATA SHEET
(PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

Institutions Applying in the 1972 GTP.
Social Sciences Doctorate Departments

Name _____ Title _____
ONLY) Masters ☐ Ph.D. ☒
BS 29,637 MS 6,784 MAT 196 Ph.D. 2,974
also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT., etc. Ph.D., D.Sc., etc.

Table D-7

SUMMARY OF RESPONSES FOR FALL 1971

U.S. GOVERNMENT (EXCLUDING LOANS)									OTHER U.S. (NON U.S. GOVERNMENT)							ALL SOURCES		
DA	DOD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other	Other U. S. Sub-totals	Foreign sources	Total	First year	Beyond first
		NDEA	PHS (NIH)	OTHER HEW														
(a)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)	(p)	(q)	(r)
13	45	1,404	1,165	403	14	873	311	4,228	1,913	750	23		83	2,769	5	7,002	2,078	4,924
3	14	7	14	6			280	324	520	391	11		50	972	381	1,677	540	1,137
90	13	2	87	38	6	171	182	598	1,493	140	10		11	1,654		2,252	719	1,533
27	4		18	10	2	50	60	174	303	32	3		4	342		519	115	401
				6		28	41	75	4,869	15			18	4,902		4,977	1,160	3,817
						6	5	11	770	4			2	776		787	140	647
17	138		10			13	80	258	535	38	81	9,391	321	10,366		10,624	4,477	6,147
	2					1	17	20	80	24	5	1,483	55	1,647	71	1,738	625	1,113
20	196	1,406	1,262	447	20	1,085	614	5,159	8,810	943	114	9,391	433	19,691	5	24,855	8,434	16,421
30	20	7	32	16	2	57	362	529	1,673	451	19	1,483	111	3,737	452	4,718	1,420	3,298
50	216	1,413	1,294	463	22	1,142	976	5,688	10,483	1,394	133	10,874	544	23,428	457	29,573	9,854	19,719

6) who are:
5,760.
but
government

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 1,045.

(C) receiving support from more than one source, exclusive of self, loans, and family 1,201.

8. Number of "special" students enrolled for graduate course work (full- or part-time) in this department who are not enrolled for an advanced degree 1,664.

10. Numbers of faculty members:			
FULL-TIME DEPARTMENTAL - FACULTY		PART TIME	
Total	Nonteaching	Graduate	Graduate
9,955	379	8,352	1,346
TOTAL			
Part time			
9,754			
Totals			

**NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972
DEPARTMENTAL DATA SHEET**

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

1. Name and address of institution: 2,073 Doctorate-granting Institutions Applying in the 1972 GTP.
2. Department (or unit) covered by this data sheet:
3. Person in Department (or unit) preparing this form: Name _____ Title _____
4. Highest degree offered in the Fall of 1971 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
5. Number of degrees granted 7/1/70 through 6/30/71: BS 85,818 MS 21,123 MAT 1,340 Ph.D. 11,342
also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT., etc. Ph.D., D.Sc., etc.

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1971 (see item 6—instructions)			U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOV)			
			AEC	USDA	DOD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family
						NDEA	PHS (NIH)	OTHER HEW								
TYPES OF SUPPORT			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)
Fellowships and Traineeships	United States	1	166	27	225	3,113	5,148	593	245	2,883	1,344	13,744	2,702	865	710	
	Foreign	2	10	16	17	78	14	15		426	576	599	436	90		
Graduate Research Assistantships	United States	3	934	656	1,245	24	1,607	254	547	2,947	1,433	9,647	5,651	516	572	
	Foreign	4	315	203	570	5	497	33	187	1,014	576	3,400	1,808	163	234	
Graduate Teaching Assistantships	United States	5				38	21		127	89	275	22,744	63	9		
	Foreign	6				10	5		15	30	60	4,783	9	7		
Other Than Above	United States	7	12	54	794	15	79	14	35	131	677	1,811	1,877	137	756	18,832
	Foreign	8	2	8	16	8	3	2	15	162	216	313	77	80	4,838	
Total	United States	9	1,112	737	2,264	3,152	6,872	882	827	6,088	3,543	25,477	32,974	1,581	2,047	18,832
	Foreign	10	317	221	602	22	593	55	204	1,044	1,194	4,252	7,503	685	411	4,838
TOTALS		11	1,429	958	2,866	3,174	7,465	937	1,031	7,132	4,737	29,729	40,477	2,266	2,458	23,670

7. The number of students included in the above table (item 6) who are:
 - (A) supported with full tuition from this institution 25,088. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.
 - (B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 5,268.
 - (C) receiving support from more than one source, exclusive of self, loans, and family 5,507.

9. Part-time graduate students enrolled for advanced degrees Fall 1971 by level of study; do not include "special" students.

1st year	Beyond 1st	TOTAL
7,642	14,341	Part time 21,983

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
41,543	2,082	34,824	6,537

11. Number of Postdoctorals/Research Associates:

Total 5,201	Teaching 531	Recent Doctorals 3,902
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SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972
DEPARTMENTAL DATA SHEET
(FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

Doctorate-granting Institutions Applying in the 1972 GTP.

sheet:

by this form: Name _____ Title _____

1971 (CHECK ONE ONLY) Masters ☐

Ph.D. ☒

through 6/30/71:

BS 85,818

MS 21,123

MAT 1,340

Ph.D. 11,342

also BA, etc.

also MA, etc. (Ex. MAT, etc.)

MAT., etc.

Ph.D. D.Sc., etc.

Table D-8

SUMMARY OF RESPONSES FOR FALL 1971
PUBLIC INSTITUTIONS

U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)							Foreign sources	ALL SOURCES		
AEC	USDA	DOD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other	Other U. S. Sub-totals	Total		First year	Beyond first	
			NDEA	PHS (NIH)	OTHER HEW															
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)	(p)	(q)	(r)	
166	27 10	225 16	3,113 17	5,148 78	593 14	245 15	2,883	1,344 426	13,744 576	2,702 599	865 436	710 90		150 77	4,427 1,202	22 771	18,193 2,549	5,003 830	13,190 1,719	
934 315	656 203	1,245 570	24 5	1,607 497	254 33	547 187	2,947 1,014	1,433 576	9,647 3,400	5,651 1,808	516 163	572 234		207 36	6,946 2,241		16,593 5,678	4,040 984	12,553 4,694	
				38 10	21 5		127 15	89 30	275 60	22,744 4,783	63 9	9 7		92 14	22,908 4,813		23,183 4,873	7,248 1,176	15,935 3,697	
12 2	54 8	794 16	15	79 8	14 3	35 2	131 15	677 162	1,811 216	1,877 313	137 77	756 80	18,832 4,838	964 261	22,566 5,569	462	24,377 6,247	10,026 2,779	14,351 3,468	
1,112 317	737 221	2,264 602	3,152 22	6,872 593	882 55	827 204	6,088 1,044	3,543 1,194	25,477 4,252	32,974 7,503	1,581 685	2,047 411	18,832 4,838	1,413 388	56,847 13,825	22 1,270	82,346 19,347	26,317 5,769	56,029 13,578	
1,429	958	2,866	3,174	7,465	937	1,031	7,132	4,737	29,729	40,477	2,266	2,458	23,670	1,801	70,672	1,292	101,693	32,086	69,607	

above table (item 6) who are:

in this institution 25,088.

receiving no tuition, but
from the U. S. Government

(B) performing some regular teaching activity
but who do not receive their major support
from a graduate teaching assistantship 5,268.

(C) receiving support from more
than one source, exclusive of
self, loans, and family 5,507.

B. Number of "special" students enrolled for
graduate course work (full- or part-time) in
this department who are not enrolled for
an advanced degree 4,836.

Advanced degrees

of "special" students.

Year Beyond 1st TOTAL
42 14,341 Part time 21,983

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL FACULTY
Total Nonteaching Graduate
41,543 2,082 34,824

PART TIME
Graduate
6,537

Graduates:

Recent Doctorals
3,902

CE FOUNDATION GRADUATE TRAINEESHIPS FOR 1972
DEPARTMENTAL DATA SHEET
(FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

Granting Institutions Applying in the 1972 GTP.

Form: Name _____ Title _____
CHECK ONE ONLY) Masters ☐ Ph.D. ☒
1971: BS 24,187 MS 11,428 MAT 408 Ph.D. 6,271
also BA, etc. also MA, etc. (Ex. MAT, etc.) MAT., etc. Ph.D., D.Sc., etc.

Table D-9

SUMMARY OF RESPONSES FOR FALL 1971
PRIVATE
INSTITUTIONS

U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
	USDA	DOD	HEW			NASA	NSF	Other U. S. Government	U. S. Government Sub- total	This Institution and State and local government	Private non- profit founda- tions	Industry	Self loans, and family	Other	Other U. S. Sub- totals		Total	First year	Beyond first
			NDEA	PHS (NIH)	OTHER HEW														
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a-i)	(j)	(k)	(l)	(m)	(n)	(j-n)	(o)	(p)	(q)	(r)
80	1 1	74 4	1,607 8	3,219 66	377 6	189 21	2,519	517 173	8,583 279	2,740 1,089	903 389	486 89		110 72	4,239 1,639	20 601	12,842 2,519	3,705 830	9,137 1,689
52 88	19 3	861 604	7	535 208	47 21	288 152	1,143 705	443 279	3,695 2,160	642 318	233 93	134 89		16 7	1,025 507		4,720 2,677	909 376	3,811 2,301
				20 4	3		37 10	19 3	79 17	5,184 1,731	37 7			27 2	5,248 1,740		5,327 1,757	1,648 421	3,679 1,336
5	1	209 11		18 3	9	13	47 5	218 20	519 40	326 108	46 24	406 47	6,533 1,673	355 150	7,666 2,002	407	8,185 2,449	3,594 1,147	4,591 1,302
87 88	20 5	1,144 619	1,614 8	3,792 281	436 27	490 173	3,746 720	1,337 475	12,876 2,496	8,892 3,246	1,219 513	1,026 225	6,533 1,673	508 231	18,178 5,888	20 1,018	31,074 9,402	9,856 2,774	21,218 6,628
25	25	1,763	1,622	4,073	463	663	4,466	1,672	15,372	12,138	1,732	1,251	8,206	739	24,066	1,038	40,476	12,630	27,846

able (item 6) who are:
ution 12,462.
to tuition, but
S. Government

(B) performing some regular teaching activity
but who do not receive their major support
from a graduate teaching assistantship 3,708

(C) receiving support from more
than one source, exclusive of
self, loans, and family 3,275.

B. Number of "special" students enrolled for
graduate course work (full- or part-time) in
this department who are not enrolled for
an advanced degree 4,083.

d degrees cial" students.		10. Numbers of faculty members:			
		FULL-TIME DEPARTMENTAL - FACULTY		PART TIME	
		Total	Nonteaching	Graduate	Graduate
Beyond 1st	TOTAL	15,820	667	14,002	2,689
10,854	Part time 17,849				
ent Doctorals 2,646					

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Other Science Resources Publications

Title	NSF No.	Price	Title
Science Resources: R&D Resources, Trends & Prospects in the United States, 1945-1973	72-301	65 pages	Science Resources: Trends & Prospects in the United States, 1945-1973
Science Resources: Studies Highlights, "A Study of Characteristics and Attitudes"	72-302	10 pages	Science Resources: Studies Highlights, "A Study of Characteristics and Attitudes"
Science Resources: Studies Highlights, "NSF Forecasts Who in Company-Funded Research and Development and R&D Employment?"	72-303		Science Resources: Studies Highlights, "NSF Forecasts Who in Company-Funded Research and Development and R&D Employment?"
Science Resources: Studies Highlights, "Company Funds Push 1980 Industrial R&D Spending to \$18 Billion in 1973"	72-318		Science Resources: Studies Highlights, "Company Funds Push 1980 Industrial R&D Spending to \$18 Billion in 1973"
Federal Funds for Research, Development, and Other Scientific Activities, Fiscal Years 1970, 1972, and 1973, Vol. 2004	72-311	\$2.75	Federal Funds for Research, Development, and Other Scientific Activities, Fiscal Years 1970, 1972, and 1973, Vol. 2004
Progress of Federal R&D Spending as a Function, 1961-1973	72-313	\$2.50	Progress of Federal R&D Spending as a Function, 1961-1973
Scientists, Engineers, and Physicians From Abroad, Trends Through Fiscal Year 1970	72-312	\$1.00	Scientists, Engineers, and Physicians From Abroad, Trends Through Fiscal Year 1970
Science Resources: Studies Highlights, "Changes in Graduate Programs in Science and Engineering, 1970-72 and 1972-74"	72-314		Science Resources: Studies Highlights, "Changes in Graduate Programs in Science and Engineering, 1970-72 and 1972-74"
A Price Index for Deflation of Academic R&D Expenditures	72-310	\$0.25	A Price Index for Deflation of Academic R&D Expenditures
Unemployment Rates and Employment Characteristics for Scientists and Engineers, 1971	72-307	\$1.75	Unemployment Rates and Employment Characteristics for Scientists and Engineers, 1971
Science Resources: Studies Highlights, "Total Scientific and Technical Personnel in Industry Remains Level; R&D Personnel Lower in 1970"	72-306		Science Resources: Studies Highlights, "Total Scientific and Technical Personnel in Industry Remains Level; R&D Personnel Lower in 1970"
Science Resources: Studies Highlights, "Forecast of 1980 and 1985 U.S. Personnel in R&D"			Science Resources: Studies Highlights, "Forecast of 1980 and 1985 U.S. Personnel in R&D"
American Science Manpower, 1970			American Science Manpower, 1970
Science Resources: Studies Highlights, "Forecast of 1980 and 1985 U.S. Personnel in R&D"			Science Resources: Studies Highlights, "Forecast of 1980 and 1985 U.S. Personnel in R&D"
1980 & 1985 Science & Engineering Personnel			1980 & 1985 Science & Engineering Personnel
Scientific Manpower of Independent Nonprofit Institutions			Scientific Manpower of Independent Nonprofit Institutions
Research and Development in Local Governments, 1965 and 1969			Research and Development in Local Governments, 1965 and 1969
Research and Development in State Governments of All Years 1967 and 1968			Research and Development in State Governments of All Years 1967 and 1968
National Patterns of R&D Resources: Funds & Manpower, 1973-1975			National Patterns of R&D Resources: Funds & Manpower, 1973-1975
Important Scientists and Engineers: A Study of Characteristics			Important Scientists and Engineers: A Study of Characteristics
Science Resources: Studies Highlights, "NSF Forecasts Company-Funded Research and Development and Employment"			Science Resources: Studies Highlights, "NSF Forecasts Company-Funded Research and Development and Employment"
Science Resources: Studies Highlights, "Company Funds Industrial R&D Spending to \$18 Billion in 1973"			Science Resources: Studies Highlights, "Company Funds Industrial R&D Spending to \$18 Billion in 1973"

